GIFTED AND TALENTED EDUCATION PROFESSIONAL DEVELOPMENT PACKAGE FOR TEACHERS

Module 2



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THE UNIVERSITY OF NEW SOUTH WALES









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Welcome!

You are about to start a Professional Development Course which will help you identify the gifted and talented students in your class or your school, and differentiate the curriculum to respond to their individual learning needs. You'll also be able to decide which of your students may benefit from various forms of ability or interest grouping and which may possibly be candidates for one or more of the many forms of academic acceleration.

About the Package

The course consists of six Modules

Each Module consists of three levels: Core, Extension and Specialisation. The Core levels of the six Modules are the heart of this course. The Core Modules contain essential information and practical advice and strategies to assist you to identify and respond to your gifted and talented students.

We strongly suggest that you complete the Core level of each Module.

Pre-tests

We are aware that teachers and school administrators will enter this course with a wide range of existing knowledge of gifted and talented education. To accommodate this range of knowledge and experience, we have started each Core Module, from Module 2 onwards, with a pre-test. We encourage you to take these pre-tests and, if you 'test out' on any Module at Core level, simply move on to the next Module. For example, if you 'test out' of Core Module 2 you will pass over that Module and move on to Core Module 3.

Extension and Specialisation Levels

Extension and Specialisation levels for each Module. Material covered in the Extension and Specialisation levels builds on the knowledge you will have gained from the Core level in each Module. Key issues are examined in greater depth and participants explore a wider range of issues in the cognitive and social-emotional development of gifted students. New identification, curriculum differentiation and program development techniques are introduced.

The Extension and Specialisation levels require teachers, counsellors and administrators to undertake further reading and practical activities to reflect on classroom practice, school practice and policy. They encourage participants to focus on their specific role in the school and prepare a brief action plan to demonstrate application or mastery of outcomes.

Schools may decide that completion of the course at Specialisation level would be a useful prerequisite for becoming the school's Gifted Education Coordinator.

What will you learn in this course?

The course consists of six Modules:

Module One: Understanding Giftedness

Understanding the nature of giftedness and talent; what the terms mean; levels and types of giftedness. Cognitive and affective characteristics of gifted and talented students; ways in which these students may differ from their classmates - even if at first we don't observe this.

Module Two: The Identification of Gifted Students

A range of practical identification procedures, with particular attention to procedures which are effective in identifying gifted students from culturally diverse and disadvantaged groups. We'll be emphasising the use of a combination of approaches rather than a single measure such as IQ testing or teacher nomination used in isolation.

Module Three: Social and Emotional Development of Gifted Students

Understanding the social and emotional characteristics and needs of gifted students. Ways in which gifted students may differ somewhat from their classmates in their social and emotional development. Supporting gifted students and their parents. Teaching strategies and class structures which foster the development of positive social attitudes and supportive peer relationships in gifted students.

Module Four: Understanding Underachievement in Gifted Students

Understanding the causes of underachievement in gifted students. Identifying gifted underachievers and planning interventions designed to prevent and reverse cycles of underachievement.

Module Five: Curriculum Differentiation for Gifted Students

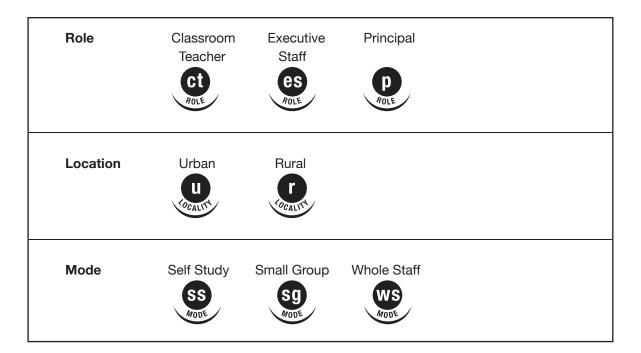
Teaching strategies and methods of curriculum differentiation which enhance the learning of gifted students in the regular classroom. Appropriate use of different enrichment models that international research has found to be effective with gifted and talented students. Practical applications of pre-testing, curriculum compacting and individualised programming.

Module Six: Developing Programs and Provisions for Gifted Students

Practical strategies for the establishment and monitoring of ability, achievement or interest grouping, and the many forms of accelerated progression. Particular attention will be paid to the effects of various strategies on students' academic and social development.

Using the package

Much of the material is suitable across teaching and learning contexts. This content is not specifically marked. However, content that may be applicable to your particular context is identified as follows:



Follow these symbols through the content to customise your learning path.

Each Module comes in two parts, each concluding with a practical exercise. We suggest that you complete the first and second parts a few days apart - unless this is not workable in your particular learning context. This will give you a chance to digest the information in Part 1 and work through the Reflective/Practical component.

Core Module 2: Identification of Gifted and Talented Students

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Module 2

Identification of Gifted and Talented Students

Welcome to Module 2, Identification of Gifted and Talented Students. In this Module you will become familiar with some of the tools and techniques that are used to identify giftedness and talent in students at different levels of schooling.

This is a challenging process, as each school will have students with different characteristics, circumstances and needs.

As will become clear throughout this Module, the key purpose of identifying gifted and talented students is to serve them with a program and curriculum that meet their needs.

1

1. What is the main purpose of identifying a gifted student?

(a) To compare them with other students.

- (b) To provide appropriate programs and curriculum.
- (c) To give feedback to parents.
- (d) To label the child gifted and talented.

2. When trying to identify gifted and talented students we should:

(a) Use one objective measure, as these tools are not influenced by personal opinion or bias.

(b) Use one subjective measure, as teachers and parents are the best people to identify gifted and talented students.

(c) Use multiple measures, comprising a combination of objective and subjective measures, according to the definition of giftedness and talent used by the school and the nature of the program.

(d) Use one objective and one subjective measure as this will allow for balance in the identification process.

3. Explain the difference between objective and subjective measures.

4. When would you use a subjective measure and when would you use an objective measure?

5. What might be the most effective identification process for the following student? Read the case study and make recommendations.

Ray is in Year 9 and coasts through school. He is popular and is regarded as 'cool'. His teachers would say that he is an average student who is performing at the level they would expect of a student of his ability. His English teacher has just discovered that Ray writes exceptional poetry but is surprised that he wants to hide this part of himself. She thinks this is interesting as he has shown no real interest in English in her class. She even wonders if he really wrote it himself.

What tools might be useful to assess whether Ray is a gifted student?

1. (b)

2. (c)

3. Subjective measures are judgements based on individuals' personal observations. Objective measures are those that produce comparable scores, eg from standardised tests, that indicate potential or performance relative to a large population of other students.

4. You should aim to use a combination of both subjective and objective measures in the identification process. Objective measures may confirm personal observations and judgements made when using subjective measures.

5. The following modelled response has been provided for the case study.

What tools might be useful to assess whether Ray is a gifted student?

Ray's English teacher asks his parents to complete a Parent Nomination Form. She asks his other teachers to complete a subject scale such as the Purdue Academic Rating Scale for the core subjects. She approaches the school counsellor to arrange for Ray to take an IQ test. She also asks Ray to put together a portfolio of his writing, which she promises to keep to herself. She analyses the data collected from his state literacy and numeracy tests.

Outcomes

At the completion of this Module, you will:

- understand the purpose of identification.
- understand the difference between objective and subjective identification tools and when to use them.
- be aware of various tools available for identification.
- appreciate the need for multiple identification criteria.

Identification as an ongoing process

As discussed in Module 1, gifted and talented students have different learning needs from those of their age peers of average ability and therefore need special educational planning to support them in developing their potential. The first step in helping these students is to find them - and this is commonly termed **identification**.

Just as it is important to identify students with learning disabilities and assess their particular learning needs on the learning continuum, it is also necessary to identify each gifted child's specific learning needs and current level of achievement. The purpose of identifying a gifted child is to provide appropriate learning experiences (Richert, 2003).

Once a student has been identified as gifted, we can then use appropriate educational interventions and strategies in order to move them along the learning continuum. In the process we may unearth additional gifts in specific areas, identify students whose needs are not being met by the current curriculum and provide evidence for inclusion in a particular program. These are both the main purposes of identifying gifted and talented students and the desired outcomes of successful identification.

Identification is not intended to label children once and for all as gifted or not gifted. Rather, it is an ongoing process, with a diagnostic purpose, just as it is for students in other special needs groups. Identification should occur throughout a child's educational journey. New contexts and developmental changes may alter the expression of different abilities at various times, requiring ongoing identification. It is a shared responsibility between parents, teachers, counsellors and trained professionals. Periodic assessment is required as students' gifts grow and change.

 Definition of program
 Nomination

 Program
 Nomination

 Statuation and continued identification
 Appropriate curriculum of freentiation / program

In a nutshell, we can see the process of identification as ongoing:

When identifying gifted students we need to know not only whether they are gifted and/or talented but also in what domain(s) the gifts or talents are sited.

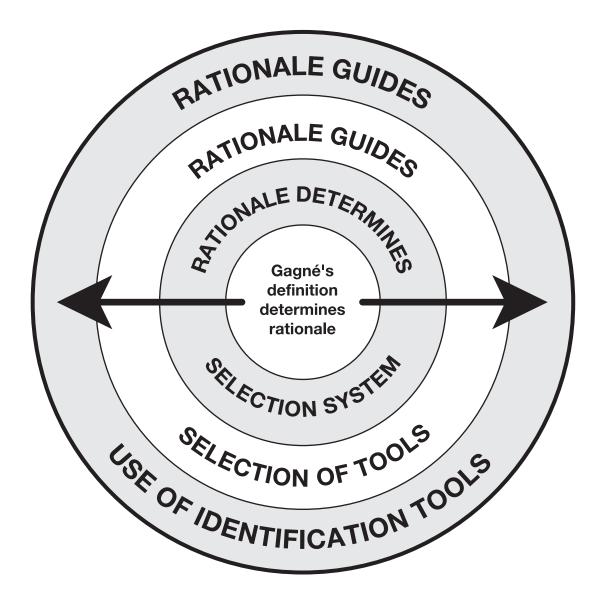
Rationale

Identification of gifted and talented students can be a complex issue and the selection of the most suitable tests, checklists and other tools for your school is very important. Choosing the 'right' tools will help you provide defensible interventions for gifted and talented students (Borland, 1989). By defensible we mean that your school can affirm that you are using the best methods available, so that your selection or placement decisions are soundly based and therefore fair and valid. Your school will be able to explain that your



identification processes aim to identify as many as possible of the gifted and talented students at the school, using a variety of reliable and valid data collection processes.

The rationale behind the way gifted and talented students are identified is dependent on the definitions of giftedness and talent that the school adopts. The Gagné model is the rationale behind the identification system used in this Professional Development Course, so this model will guide our discussion of identification tools and their use. If you are looking for students who are either gifted or talented (or both, with some gifts having been successfully translated into talents and others still to be assisted), you need to use a variety of tools that will allow you to identify high potential as well as high performance. Identification procedures need to take into consideration the important issue that some gifted children freely express their abilities at school, while others may not.



Principles of effective identification

There are several important principles, supported by research, to guide you in your endeavours to identify gifted students effectively and confidently. These include:

- Using tools and strategies that are prescribed by, or in harmony with, the definitions of giftedness and talent adopted by your school (eg Gagné's, as described in Module 1).
- Using multiple criteria, so that you may identify as many of your gifted students as possible, using a variety and balance of both subjective and objective measures.
- Ensuring that the tools and strategies you use are reliable and valid.

Reliability refers to the accuracy or consistency of an identification method (eg teacher nomination may be considered to have low reliability if two teachers estimate quite differently the potential in a particular domain of the same student, or group of students).

Validity refers to the extent to which an identification method measures what it is supposed to measure (eg parent nomination may be considered to have low validity if all students in a comprehensive school are rated as gifted).

Reliability and validity will be expanded upon in the Extension and Specialisation levels of this Module.

- Examining the intrapersonal and environmental catalysts which are influencing the expression of giftedness.
- Establishing equity of procedures to ensure that no one is overlooked. This will include considering children from disadvantaged backgrounds, and taking into account cultural influences.



- Beginning the identification process early to help prevent chronic underachievement.
- Providing appropriate education (eg in pace and level). We will cover this in the subsequent Modules.

The range of identification measures which the school adopts should be designed to identify all of the gifted and talented students in the school population.

So, how do we know what are the best measures?

Identification measures fall into two basic categories: subjective and objective measures.

Subjective measures allow judgements to be made on the basis of structured observations of the student. These include teacher, parent, peer and self nomination, along with anecdotal records contributed by previous teachers and the child's family.

Objective measures are standardised tests of ability or achievement. These include IQ tests and other forms of psychometric testing, standardised performance tests, dynamic testing and off-level testing.

You may also see these two types of measures referred to as **quantitative** (objective) and **qualitative** (subjective). Effective identification of gifted children requires evidence from both categories.

Effective identification will provide:

- evidence of both students' ability (potential) and their current level of performance.
- pointers to underachievement, including information about the environmental and personalogical catalysts, which may be influencing students' current performance. (You may wish to re-read the section on Gagné in Module 1 which outlines the possible impact of these catalysts).
- information that initiates appropriate curriculum and programs.

Did you know that effective identification will help you to identify underachieving gifted students, including students from culturally diverse and disadvantaged populations?

(You can read more on this, later in this Module, and in Module 4).

Not all gifted students perform well in the school system

The school should also employ identification procedures which are designed to find students who are not achieving at levels commensurate with their ability, due to negative effects of intrapersonal and environmental catalysts. These students are called **gifted underachievers** and in Module 4 we will explain some of the reasons why underachievement is so prevalent among gifted and talented children and adolescents.

A wide range of strategies must be used to assist identification. The tools you use will depend upon the child's age, need, location, background and the resources available to you in your school, district or system. These will be different for each individual in each school. A defensible identification process must contain a balance of objective and subjective measures.

Subjective measures

Giftedness has many dimensions and so should the identification process. Subjective measures allow teachers, parents, peers and the students themselves to use checklists and other descriptors which help them make evaluative judgements about a student's ability.

Parent nomination

Parents are a valuable source of information. No one knows a child, particularly a young child,

better than their parent. Parents have information on both the positive and negative characteristics of their children, particularly in the first five years of life before schooling begins. They know their children's areas of interest and passion.

Significant areas of advanced development can be readily observed in young children and it is the parent who is the 'keeper' of this information.

Parents may be aware of the ages at which their child moved through stages of speech acquisition, physical



development milestones, stages of prereading and early reading, and the development of numeracy and early interests. Early development of speech, movement and reading are strong predictors of high intellectual ability. Gross's (2004) study of exceptionally gifted children recorded children who sat up at four months, uttered their first meaningful word by eight months and walked up stairs by nine months. Clearly, these children demonstrated learning which was significantly in advance of their peers. These behaviours occurred long before school entry. They were observed by parents: their teachers weren't around at the time! It is essential to

involve parents in the identification process if we are to gain a whole picture of the child. Early development and milestones will be expanded upon in the Extension and Specialisation levels of this Module.



Teachers are often sceptical that parents may overestimate their child's abilities. However, parents of gifted young children more often **under**estimate their child's abilities, as they may see them as normal, compared to siblings or other family members. In a family where children are developmentally advanced, what parents consider to be normal development may later be seen as substantially advanced when the child enrols in school.

Teachers do not see these early developmental stages. Parents are more likely to know when particular areas of strength are most evident - and this can be a very useful aid to the identification process. To assist parents to record this valuable information, a set of questions which allows an anecdotal example to be provided, is a most useful tool for identification. Be aware that for some cultural groups there may be reticence to nominate a child or that cultural norms may hold back or hide gifted students. This is particularly true where it is culturally inappropriate to stand out.

A variety of parent checklists is available and your state or territory may have a preferred version. However, one that we recommend, developed by Professor Michael Sayler of the University of North Texas and already used in a number of Australian schools, is included below for your use.

Nomination forms can be extremely useful in identifying gifted secondary students. Information about interests and passions, which also appear outside school, are very relevant to the secondary teacher.



GERRIC RESOURCES GIFTED AND TALENTED CHECKLIST FOR PARENTS THINGS MY CHILD HAS DONE

Carefully read each of the following descriptions. Each item is followed by a series of examples; use the examples to help understand the description in the item. Decide how much you agree that your child is like the description. Mark your agreement on the scale from strongly agree (SA) to strongly disagree (SD). Fill in one circle for each item. If you are unclear or haven't noticed how your child compares to an item, fill in the **Unsure or don't know** circle. Then, tell us about a time your child did the things in the item. Try to recall specific incidents or examples about your child. Feel free to add extra pages of stories or examples to tell us more about your child.

Child's name:

Child's birthday:_____

Your name:_____

School name:_____

Date:_____

My child:

1. Has quick recall of information.

(e.g. immediately remembers facts, series of numbers, events, words from songs or movies, or parts of conversation heard earlier)

SA @ 9 8 7 6 5 4 3 2 0 0 SD A personal example: O Unsure or don't know

2. Knows a lot more about some topics than do other children that age.

(e.g. recounts facts about dinosaurs, sports, electronics, maths, books, animals, music, art, etc; finds out a lot about a particular subject on his or her own)

SA @ 9 & 7 6 5 4 3 2 0 0 SD O Unsure or don't know A personal example:

3. Uses advanced vocabulary.

(e.g. surprises older children and adults with the big words used; uses words unusual for a child, knows the correct terms, exact words or labels for things; acts and speaks like a grown-up when talking to adults; uses simpler words when talking to peers or younger children)

SA @ @ @ @ @ @ SD O Unsure or don't know A personal example:

4. Began to read or write early.

(e.g. said or could read individual words at a very young age; started to read before entering school; likes to write or tell stories; learned to read without being taught)

SA @ 9 8 7 6 5 4 3 2 0 0 SD O Unsure or don't know A personal example and age of child at the time:

5. Shows unusually intense interest and enjoyment when learning about new things.

(e.g. has lots of energy and interest when learning; frequently and persistently asks how and why questions; is not satisfied with simple answers; wants to know details; loves how-to-do-it and nonfiction books)

SA @ @ & @ & @ & SD O Unsure or don't know A personal example:

6. Understands things well enough to teach others.

(e.g. teaches other children how to do things; explains things so that others can understand; explains areas of interest to adults)

SA @ 9 8 7 6 5 4 3 2 0 0 SD A personal example: O Unsure or don't know

7. Is comfortable around adults.

(e.g. spends time with and talks to adults who visit the house; likes the company of adults; enjoys talking with adults; understands adult humour and creates funny sayings or jokes adults can appreciate)

SA @ 9 8 7 6 5 4 3 2 1 0 SD A personal example: O Unsure or don't know

8. Shows leadership abilities

(e.g. other children ask my child for help; organises games and activities for self or others; makes up the rules and directs group activities; may be bossy)

SA @ 9 & 7 6 5 4 3 2 0 0 SD O Unsure or don't know A personal example:

9. Is resourceful and improvises well.

(e.g. puts together various household objects to make inventions or solve a problem; uses unusual objects for projects; uses objects in unusual ways; makes 'something out of nothing')

SA @ @ @ @ @ SD O Unsure or don't know A personal example:

10. Uses imaginative methods to accomplish tasks.

(e.g. makes creative short cuts; doesn't always follow the rules; good at finding creative ways to get out of work)

SA @ 9 & 7 6 5 4 3 2 0 0 SD O Unsure or don't know A personal example:

11. Use the rest of this page or its back to tell us anything you think is important about your child that we have not asked about. Please feel free to add any information you think might be useful in giving us a clear picture of what your child has done. Be as specific as possible in describing your child's interests and accomplishments. If you can share some copies of your child's creative work, we would be delighted to have them.

Here is an example of a useful parent checklist item on Sayler's 'Things My Young Child Has Done':

Checklist item:

My child:

1. Has quick accurate recall of information.

(eg remembers complex happenings and describes them long afterwards in clear details; learns notes and words to songs quickly; remembers landmarks and turns on the way to familiar places.)



A personal example:

An example of a parent response to the above checklist item, follows;

My child: Antonio Tamaro



A personal example:

Antonio was only 18 months old when his grandparents moved house. After his first visit to Grandma's, he directed the way home from the back seat of the car by pointing. The 20-minute trip was achieved perfectly. By age two-and-a-half he could remember the words to 20 nursery rhymes, which all had to be recited every night!

It is clear that Antonio has an excellent memory, both verbally and spatially. However, more than one item is required in order to develop an overall picture of Antonio's ability. Using a detailed parent nomination form will assist the teacher to note the overall pattern of Antonio's behaviours, early interests and passions.

It is sometimes easy for educators to dismiss parent information or anecdotes as parental pride. However, it is these anecdotes which tell you, the teacher, just how early the child was displaying specific behaviours. This will also allow you to assess just how different the child is from his or her age-peers. Parents will be more likely to cooperate when you explain that you are interested in knowing more about their child and the way he or she learns.

Limitations of the parent nomination checklist

As with all identification procedures, parent nomination has some limitations. For example:

- A parent may not be fully aware of the degree of a child's advancement.
- Adoption or fostering may mean that consistency of information has not been maintained.

- A parent may not be able to read, interpret or understand the nomination form due to language, literacy or cultural barriers.
- Parents may not have all the relevant information, due to family breakdowns.
- For a variety of reasons, parents may refuse to complete the form.

Interpreting parent checklists

Interpreting parent checklists means reading carefully through the information given and asking yourself:

- Are there gifted behaviours being observed at home?
- Are there early milestones achieved at a younger age than the norm?
- Are more than a third of the items illustrated with descriptive anecdotes?

This information should indicate whether the child is displaying observable gifted behaviours, which can then be combined with information from the other subjective and objective measures the school can use.

Teacher nomination

Module 1 presented a range of learning characteristics and social-emotional characteristics of gifted students. These characteristics are readily observable if teachers know what they are looking for. Certainly, poor teacher nomination can occur when teachers make a subjective judgement without the support of checklists or other tools. For example, teachers may associate giftedness only with high performance. However, many gifted children may not outperform or even equal their peers on everyday classwork. Rather it is on complex, more advanced work, in the student's area of high ability, that you may see greater evidence of giftedness.



A behavioural checklist is a useful tool for teacher nomination. It may facilitate structured observation of both positive and negative behaviours in students. Teachers wanting to identify their gifted students sometimes make the mistake of looking only for positive behaviours.

However, gifted children who are frustrated, bored or switched off learning will rarely be feeling positive about their school experience - and boredom and frustration are rarely manifested in positive ways! Gifted underachievers are unlikely to be identified by teacher checklists which consist only of positive descriptors.

Here is an example of how a characteristic can be described in both its positive and negative forms:

Characteristic

High level of curiosity and a wide variety of interests

Positive Behaviour

Investigates ideas, remembers things in great detail, asks questions.

Negative Behaviour

Easily diverted from the task, takes on too many projects, asks questions at inappropriate times.

Scenario of a classroom setting

Mrs McCarthy would describe 12 year-old William as a dreamer, rather average and not particularly interested in much that goes on in the classroom. He floats through class and seems to be miles away, lost in his thoughts most of the time. He usually performs poorly on his written work and misses instructions, needing these to be given again and again. However, on weekends, William belongs to the Geologists Society, which is run by Mr Cameron, a geology teacher from the local high school.

William loves nothing more than spending his weekends digging for fossils and classifying rocks. He has quite a collection even though he is at least 20 years younger than most other members of the Society. The adults in the group refer to him as 'Professor William' and when they unearth a new find, ask for his opinion. They describe his level of knowledge as that of an expert. He dreams of becoming an archaeologist or anthropologist (he is yet to decide!) and has made some significant finds.

William rushes through his homework in order to get on to more interesting things. He sees school as a waste of time and 'saves himself' for his research. He has a documented journal of his fossicking adventures and records in great detail what he has discovered each trip. He also enjoys emailing the adults in his fossicking group, asking questions and planning future trips.

Mrs McCarthy and Mr Cameron would have very different views of William. However, a checklist of behaviours employed after seeing William engaged in his passion area of geology and ancient civilisations would elicit a very different profile from his daily class work. Therefore, it is crucial when using teacher nomination that you give students the opportunity to engage in an area of advanced and complex content. You can then look for demonstrated behaviours that indicate gifted characteristics.

Students need to engage in challenging and complex activities in order to demonstrate advanced thinking and complex reasoning. For example, curiosity may only be evident when there is something to be curious about. Use of sophisticated humour may only manifest itself when children are given the opportunity to be 'cleverly' funny.

You may need to design a range of complex activities in order to elicit these gifted behaviours.

Be careful not to use the 'shopping list' approach, whereby you observe a student for 10 minutes, aiming to tick off all the items which describe the student. Structured longer-term observation is more valid. You should observe the child over a period of time, during which different experiences are offered and specific behaviours can be observed.

Teacher nomination forms or checklists come in many styles. Your state or territory may have a preferred version. However, the following table is an alternative which you can use.

Primary and Secondary Teacher Nomination Form

Record the name of your student. Use a highlighter to show each behaviour you observe in the classroom or playground.

Name of Student:	Age:
Teacher:	Date:

Characteristics	Behaviours
Unusual alertness	 intense concentration and interest in interactions and objects long attention span
Advanced play behaviour	 interest in games with rules developed at an earlier age than usual able to play games which require strategy earlier than age-peers
Exceptional memory	• ability to recall information in great detail. Often tells stories to the teacher with a immense amount of detail.
Early reading	ability to read on entry to school
Rapid pace of learning	 appears to acquire knowledge effortlessly ability to generalise the knowledge to new situations in unexpected ways
Asks lots of questions	 ask probing and reflective questions
Early development of classifying and investigating skills	 organises things by classifying into groups investigates how things work and wonders 'what will happen if'
Exceptional mathematical ability	 capacity to grasp abstract mathematical concepts at unusually early age

Imagination	 has an imaginary friend or animal creative and inventive storyteller
Early speech	 love of rich vocabulary; larger than expected vocabulary compared with age peers capacity to create complex sentences
Early social interactions	 early awareness of the individuality of others intense concern for other children who are hurt
Feelings of frustration	 frustrated if motor coordination lags behind intellectual development, such as pencil grip may be resistant to writing or drawing
Heightened sensitivity	early capacity to empathise with feelings of others
Social and emotional maturity	 emotionally more like older children and may seek them out as friends may be isolated from same- age peers because of his or her more mature interests and perceptions
Early awareness of difference from others	 norm-references to other children from an early age may deliberately begin making mistakes to be like other children

Caroline Merrick, 2004

Scoring the Checklist

Have you highlighted more than 5 different behaviour boxes? YES / NO

How many characteristics (in the first column) are being displayed?

Conclusions:

Let's look at how Mrs McCarthy would score William on a Teacher Nomination Form:

Primary and Secondary Teacher Nomination Form

Record the name of your student. Use a highlighter to show each behaviour you observe in the classroom or playground.

	Name of Student:	William Harris
--	------------------	----------------

Teacher: Mrs McCarthy

Age: 12

Date: Nov 2004

Characteristic	Positive Behaviours	Negative Behaviours
Highly curious	 asks lots of questions inquisitive remembers details 	 asks inappropriate questions poor group participant easily diverted from task
Abstract thinker	makes generalisationstests out ideas	 questions others questions authority
Flexible thinker	 employs variety of strategies to work something out 	 manipulates people and situations by using a variety of strategies
Clever use of humour	enjoys 'adult' humourgets teachers' jokes!	uses humour at the expense of others
Superior Vocabulary	 heightened involvement in discussions enjoys adult-like discussions 	 may be bossy or overbearing when working with others
Advanced Reading	 reads widely advanced vocabulary and comprehension 	 reads constantly neglects peer interaction and work-prefers to read
Retention of knowledge; fast learner	 moves beyond core content and skills quickly detailed recall of facts 	 rushes work, then disrupts others monopolises class discussions
Long attention span	 concentrates and focuses on an area of interest for a long period of time 	 easily distracted unless the task is an area of passion or interest
Independent	 self-directed focused on task in research or study 	 reduced involvement in discussion or group work uncooperative in a group
High level of responsibility and commitment	 sets attainable goals learns to accept own limitations tolerant of peers in a group 	 self-critical perfectionist when completing tasks sets unrealistic expectations for other group members

Strong feelings and opinions	 listens to others shows concern and interest considers others' points of view aware of others' feelings 	 speaks out and lacks tact over-reacts to others' comments and reactions confrontational
Strong sense of justice	 empathises with those less fortunate wants to 'save the world' stands up for other children whom they think have been poorly treated 	 argues the rules in games eg handball frustration when others don't play exactly by rules asks older children or adults to solve issues seen as 'unfair'
Original and creative	 comes up with ideas 'out of the box' sees problems as a whole connects thoughts and feelings 	 unaccepting of status quo absent-minded or daydreamer asks unrelated questions disorganised
High energy level	 wide variety of interests organises time well high level of individualised learning 	 often difficult to live with may appear hyperactive easily bored so seeks out new things to explore
Immersion learner	 wants to know everything about a topic becomes an expert on a topic by reading widely or talking to people 	 focuses on topics of interest to them, at the expense of classroom work shows off knowledge to prove others wrong

Caroline Merrick, 2004

Adapted from Gross, MacLeod, Drummond & Merrick (2001), Clark (1983) and Baska (1989)

Scoring the Checklist

How many positive behaviours are being displayed? 1

How many negative behaviours are being displayed? 11

Have you highlighted behaviours in more than 5 different behaviour boxes? YES

Of which behaviours are you observing more: NEGATIVE

Conclusions:

William is displaying a majority of negative behaviours and should be further considered, using other identification tools. Follow up this teacher nomination form by speaking with his parents to find out if there are any other teachers who teach William in or out of school, eg music, drama, basketball. Ask William's parents to complete a Parent Nomination Form. Record any objective test results, which may be on file. Consider other identification tools, particularly objective measures, such as an IQ assessment and off level testing.

Now let's look at how Mr Cameron would score William on a Teacher Nomination Form:

Primary and Secondary Teacher Nomination Form

Record the name of your student. Use a highlighter to show each behaviour you observe in the classroom or playground.

Age: 12

Teacher: Mr Cameron

Date: Nov 2004

Characteristic	Positive Behaviours	Negative Behaviours
Highly curious	 asks lots of questions inquisitive remembers details 	 asks inappropriate questions poor group participant easily diverted from task
Abstract thinker	makes generalisationstests out ideas	 questions others questions authority
Flexible thinker	 employs variety of strategies to work something out 	 manipulates people and situations by using a variety of strategies
Clever use of humour	enjoys 'adult' humourgets teachers' jokes!	uses humour at the expense of others
Superior Vocabulary	 heightened involvement in discussions enjoys adult-like discussions 	 may be bossy or overbearing when working with others
Advanced Reading	 reads widely advanced vocabulary and comprehension 	 reads constantly neglects peer interaction and work-prefers to read
Retention of knowledge; fast learner	 moves beyond core content and skills quickly detailed recall of facts 	 rushes work, then disrupts others monopolises class discussions
Long attention span	 concentrates and focuses on an area of interest for a long period of time 	 easily distracted unless the task is an area of passion or interest
Independent	 self-directed focused on task in research or study 	 reduced involvement in discussion or group work uncooperative in a group
High level of responsibility and commitment	 sets attainable goals learns to accept own limitations tolerant of peers in a group 	 self-critical perfectionist when completing tasks sets unrealistic expectations for other group members

Strong feelings	listens to others	speaks out and lacks tact
and opinions	 shows concern and 	 over-reacts to others'
	interest	comments and reactions
	considers others' points of	confrontational
	view	
	aware of others' feelings	
Strong sense of	empathises with those less	argues the rules in games
justice	fortunate	eg handball
	 wants to 'save the world' 	frustration when others
	stands up for other children	don't play exactly by rules
	whom they think have	asks older children or adults
	been poorly treated	to solve issues seen as 'unfair'
		uman
Original and	 comes up with ideas 'out of 	unaccepting of status quo
creative	the box'	absent-minded or
	sees problems as a whole	daydreamer
	 connects thoughts and facilings 	asks unrelated questions
	feelings	 disorganised
High energy	wide variety of interests	often difficult to live with
level	 organises time well 	 may appear hyperactive
	high level of individualised	 easily bored so seeks out
	learning	new things to explore
Immersion	wants to know everything	focuses on topics of interest
learner	about a topic	to them, at the expense of
	becomes an expert on a	classroom work
	topic by reading widely or	 shows off knowledge to
	talking to people	prove others wrong

Caroline Merrick, 2004

Adapted from Gross, MacLeod, Drummond & Merrick (2001); Clark (1983) and Baska (1989)

Scoring the Checklist	
How many positive behaviours are being displayed?	15
How many negative behaviours are being displayed?	1
Have you highlighted behaviours in more than 5 different	t behaviour boxes? YES
Of which behaviours are you observing more:	POSITIVE

Conclusions:

William's scientific knowledge is quite phenomenal. He is displaying many of these gifted behaviours, most of which are in the column of positive behaviours. I was more than happy to complete this Teacher Nomination Form for you, Mrs McCarthy. Please call me if you would like any further details.

Mrs McCarthy has identified clusters of William's negative characteristics while Mr Cameron has identified positive characteristics. Individually, these checklists both show gifted behaviours. However, looking at both checklists, we can see how different patterns emerge in different contexts. In Mrs McCarthy's class, William is gifted but not showing it. With Mr Cameron, he emerges as highly talented!

Who else can you ask to complete teacher nomination forms?

You may be able to ask other educators, who may teach these students, also to complete the Teacher Nomination Forms. This will add greater weight to the subjective elements of the identification process.

Asking teachers from different faculties to complete Teacher Nomination Forms may highlight gifts and



talents in specific subjects. A more complete picture of the student's current level of functioning will become more evident as a result of this process. This process may also mean that all the student's teachers begin seeing the him or her differently.

Interpreting teacher nomination checklists

When you have collated the information gathered on the Teacher Nomination Forms, you are ready to interpret it. When analysing this information, you are looking for any patterns and clusters of gifted behaviours, which you have read about in Module 1.

Look for at least one-third of these behaviours or characteristics to be highlighted on the Teacher Nomination Form.

These can either be in the positive or negative behaviours column. The more behaviours that are highlighted, the more evidence you have collected to support your belief that this child is gifted.

When you have collated the evidence from teacher nomination - together with the other subjective measures **and** the objective measures which we will discuss later in this Module - you should have a much clearer picture of whether or not the student is gifted, and in what areas his or her gifts lie. The information gathered from the subjective and objective measures used will be very important in determining the child's needs, in terms of programs, provisions and curriculum differentiation.

If the teacher nomination forms show a majority of negative (rather than positive) behaviours, be aware that this often indicates underachievement in gifted students. This should lead you to investigate possible causes - which we will address in Module 4.

Limitations of teacher nomination

As with all identification procedures, teacher nomination has some limitations. These include:

- Teachers may not believe the student is gifted and consequently may not use the checklist to identify the student.
- Teachers trained in the use of such checklists are more accurate in the identification of gifted and talented students than those who have not had such training. Teachers without this training may identify 'moderately bright conformists' (sometimes referred to as 'teacher pleasers') rather than gifted and talented students.

Training in the use of teacher nomination checklists is vital if this method of identification is to be effective.

Disadvantaged and culturally diverse populations

Identification procedures which are used for the majority of gifted and talented students may not be suitable for some culturally diverse populations. Different methods of identification may be needed for students from culturally diverse, low socio-economic status or Indigenous backgrounds.

These gifted students are not lacking in ability but their ability may be masked by negative environmental or intrapersonal catalysts. Because of this, their giftedness may not be evident in the identification process.

Teacher nomination of students from disadvantaged backgrounds or culturally diverse populations is most effective when the teachers have training in gifted education and experience with students from these backgrounds.

Finally, teacher nomination for all students will be most effective when teachers have had inservice or training in the identification of gifted students. You will feel more confident in identifying gifted students in your class or school when you have completed the six Modules over the course of this program.

Conclusion on subjective measures

The information collected in this initial phase of the identification process will then be used in conjunction with the objective measures. To conclude this section we offer for your consideration a further identification principle:

Include, for further assessment, students you are not entirely sure about, rather than exclude them - and invite surprises.



Think about the students in one of your classes. Using the knowledge you have developed from Module 1, choose three students who you think may be gifted (even if they have not yet become talented achievers).

Print out or photocopy three copies of the Teacher Nomination Form and write the names of these three students on the top.

Complete the checklist for each student by highlighting the behaviours you have observed.

Now consider other educators who may also contribute to the process. Write their names below:

Now interpret the checklist.

- Are more than four characteristics highlighted?
- Are there clusters of positive and negative characteristics?
- Is there any correlation with the information presented by other educators?
- Are there other teachers who perceive the student differently?
- Is the student a possible gifted underachiever?

Keep these teacher nomination checklists for use when collating the information gathered from the other objective and subjective measures.



Think about the students in one of your classes. Using the knowledge you have developed from Module 1, choose three students who you think may be gifted (even if they have not yet become talented achievers).

Print out or photocopy three copies of the Teacher Nomination Form and write the names of these three students on the top.

Complete the checklist for each student by highlighting the behaviours you have observed.

Share with the group, the names of the students you have identified, using the teacher nomination form.

- Are there any names recurring, among your group?
- Is a particular gender more represented in the negative behaviours column?
- Have you selected any students whom you had not considered gifted before you completed this Module?
- What do you think other teachers would say about the students you have identified?
- Compare your results across the faculties.

Objective identification



Objective identification measures can be used to identify gifted and talented students' aptitude and achievement. Objective measures are tools such as standardised tests of potential or performance. Objective measures give teachers and counsellors a score, or a series of scores, which can be used to compare the students with others from their age group or cohort. These measures usually assess a variety of elements of cognitive processing or achievement, eg verbal reasoning or reading comprehension.

Different objective measures give us specific information about a student's ability to achieve well in the school context. The measure may show you either a student's potential to achieve or his current level of achievement.

A variety of objective measures exist and each measure assesses different aspects of a student's ability to learn.

It is important to note that it is quite possible for a student to score at a level lower than her ability. However, it is almost impossible to achieve **beyond** one's true ability on any test, if it is administered in the manner prescribed.

This means that a student's test result may be an underestimation of his ability. However, if a student scores higher than you expected, it is your expectation that is likely to be at fault rather than the test score!

Psychometric assessment - IQ testing

Currently, one of the most effective measures of a student's potential to achieve academically in school is an independent psychometric assessment, commonly known as an IQ test (Assouline, 2003; Rogers, 2002). Such tests can only be administered by a registered psychologist such as your school counsellor or guidance officer, or a private registered psychologist. The most commonly used IQ tests are the **WISC-IV** or the **WISC-III** and the **Stanford-Binet-V**. These tests should be available to your school counsellor or guidance counsellor. This type of test gives information about the student's ability to reason, compared with her age peers.

A high score on such a test shows that the student has the **potential** to achieve well at school. However, this does not guarantee that the student will **be** performing well in the school context. Remember Gagné's environmental and personalogical catalysts that can block the translation of this student's high **ability** - which is measured by the test - into high achievement.

IQ tests can be given to children from as young as three years of age - the Stanford-Binet-V has norms for children as young as two-and-a-half. However, testing a very young child usually results in a score that is an **under**estimation of the child's ability. This is because a young child will often become fatigued during the testing process. The test results are less likely to underestimate a child's ability if the test is done after the age of 5 or 6. **The optimum age range for testing is between 5 and 13 years**.

Some IQ tests are not as effective in identifying gifted students from some culturally diverse or significantly disadvantaged groups. Other identification tools are more effective with such students. (We will explain this further below and in Module 4 on Underachievement.)

The usefulness of IQ testing has sometimes been questioned by teachers who worry that IQ scores **label** children. However, the purpose of identification is not to **label** but to **diagnose** a student's level of functioning and her consequent educational needs, so that these needs can then be addressed through the provision of appropriate curriculum and program options. IQ tests are very useful tools because they can, and often do, reveal hidden potential. They can also assess students' **levels of giftedness**.

Aptitude testing

Aptitude tests measure a student's potential to perform well at school. Most aptitude tests can be given to more than one student at a time. These tests are less expensive and less time consuming than individual IQ tests administered by a psychologist. Examples of such tests are the OLSAT, The Henman-Nelson and the Kaufman. These tests are often used for entry into ability grouped classes or schools. Aptitude tests give us a good understanding of a student's reasoning potential, particularly in a verbal context, as the majority of these rely on good reading and comprehension skills.

Aptitude tests which are administered in a group format are less effective in identifying particular groups of students:

- students from disadvantaged backgrounds and/or culturally diverse groups,
- gifted students with English as their second language, and
- gifted students with learning difficulties.

Low aptitude test scores from students in these populations should be treated with caution because the scores may not be a true indication of their ability.

Standardised achievement tests

Standardised achievement tests measure a student's performance or current level of achievement. This is usually in a specific learning or subject area. These tests compare students with other students who are in the same stage or grade. Examples of such tests include any state literacy or numeracy test that has been normed across the state, such as ELLA or SNAP in NSW. Other examples of standardised tests include Maths Olympiad or UNSW competition papers, the Progressive Attainment Matrices (PAT Maths, PAT English), the Neale Analysis of Reading and the Test of Reading Comprehension (TORCH).

There are many excellent achievement tests available through companies such as the Australian Council for Educational Research (ACER), who may be able to assist you regarding the availability and purchase of such tests. Your school may already have some of these tests available for use.

Each standardised achievement test has been designed to identify a different aspect of a student's learning. When choosing a standardised achievement test it is important to understand the specific purpose of the test. For example, the NEALE Analysis of Reading measures the specific aspects of reading fluency and comprehension. It does not assess a student's ability to write lengthy responses to text or to empathise with the main character of a book.

Standardised achievement tests **only measure the performance level** of a student in a particular subject area. They will not identify a student's potential to achieve in that area and thus, some **gifted underachievers may score poorly.**

Teacher-made tests and assessments

Teacher-made tests and assessments can be effective identification tools for talented students who are motivated and performing well. These assessment tools can be used to compare students against their current cohort. Educators regularly use such assessments to determine students' current level of achievement. However, these tools often have a **low ceiling** and are unlikely to show the true level of ability of some gifted students, if the test is designed only to show mastery of basic skills.

In secondary schools we often use such tests and assessments across whole Years, to compare students within that Year level. These assessments are useful for identifying gifted students who are demonstrating talent.

Such tests will not identify gifted underachievers and may not identify talented students who are not engaged by the assessment process.

Off-level testing

Off-level testing is used to identify the extent of a student's knowledge or skill in an area of giftedness or talent. The purpose of such testing/assessment is to identify if the student has knowledge and/or skills that you would expect of a student in a higher Year level. The information gathered from such assessments can help influence the curriculum delivery and programs in which a student participates.

In the secondary years of schooling, assessments should be **at least two to three years above** current Year placement. For example, you could be using a School Certificate (Year 10) maths paper with a Year 8 student, or using an HSC (Year 12) paper with a student in Year 9.

Disadvantaged and culturally diverse populations

Gifted children are found in all cultural groups and at every level in society. However, students who come from backgrounds other than that of the dominant culture may be more difficult to identify using standard identification procedures. This is because students who come from disadvantaged or culturally diverse backgrounds may not perform well on standard objective assessments. It is well documented that Indigenous Australians, students from low socio-economic status groups and some ethnic populations often do not perform well on standardised objective measures. For this reason, educators should be cautious when interpreting these results. This is discussed in greater depth in Module 4.

If you believe the student is gifted, a guiding principle in using objective measures of identification is to believe the high scores but treat the average and low scores with caution.

The identification of gifted students from the populations noted above needs a flexible approach. Information needs to be gathered using a variety of tools which examine many facets of reasoning and expressions of giftedness. Such tools may include culture-fair standardised tests such as the Raven's Standarised Progressive Matrices and the Goodenough-Harris Draw-a-Person Test. Other identification strategies which may be effective in such populations are authentic assessment, dynamic testing and identification through exposure to challenging teaching. Teachers need to be aware of the environmental and personal catalysts which may affect the expression of giftedness in these populations.

One way to identify underachievers from culturally diverse groups or disadvantaged populations is to use the emerging methodology of **dynamic testing**. This methodology represents a very promising alternative to traditional assessment in that it seeks to optimise the students' cognitive performance, rather than simply measure it as it currently manifests itself.



Consider the case of 14-year-old Terry

Terry comes from a culturally diverse group. He asks interesting questions and can be challenging in class at times. Terry often points out when he feels that a teacher has been unjust to a fellow classmate or himself. He reads a lot, but often fails to submit assignments even in the subjects he says he enjoys.

Terry's family rarely come to parent teacher night and there seems to be little support from home. He is often out late at night and comes to school tired.

Terry's English teacher is impressed with the insightful points Terry makes in class when he is listening. She knows that Terry has not performed well on last year's State literacy test and suggests that Terry be assessed using dynamic testing, as the system in which she works has just trained a number of counsellors in this process.

Dynamic testing

Dynamic testing seeks to optimise the student's cognitive performance and begins where oneoff assessments end. Dynamic testing usually follows a **pre-test-intervention-posttest format** where the intervention is designed to address factors that contribute to underachievement, for **whatever is causing the underachievement in class will also be influencing any identification process.** Students who perform well below their potential (ie underachieve) in the pre-test may improve considerably in the posttest **if** the intervention has been effective. Those who achieve to their potential at pre-test can improve only slightly.



Consider the cases of Julia and Amelia

Julia and Amelia both scored in the 45th percentile band in a dynamic assessment pre-test, a commonly used, relatively culture-fair measure of ability to learn. Following the intervention phase Julia scored in the 48th percentile band while Amelia had advanced to the 87th percentile band, strongly suggesting that Amelia's pre-test score represented a substantial underachievement.

If the pre-test alone had been used to assess Amelia's potential she would have been wrongly assumed to be an 'average' student and thus would have become an 'invisible' gifted underachiever. The Raven's Standard Progressive Matrices (RSPM) is a non-verbal test of a child's underlying ability to learn. The RSPM is considered to be relatively culture-fair, mainly because it does not require any literacy or specific language skill and is free of culture-specific items. Consequently, the RSPM has been recommended by some as a suitable tool to identify children from culturally diverse backgrounds. However, recent research (Chaffey, Bailey & Vine, 2003; Lidz & Macrine, 2001) suggests that non-verbal assessment may be only marginally better than other assessment methods for some culturally diverse populations. The reason is simple: the factors contributing to underachievement for these students are many and complex, with language being only one.

So ... which objective and subjective measures should I choose?

As there are so many different types available, it is clearer to analyse these in a chart format.

Chart summary of objective and subjective testing

Identification measure/tool	What the tool measures	Advantages	Disadvantages	Identifies gifts or talents?
Invididual IQ test such as WISC-IV Stanford Binet-V	Reasoning ability for school- based learning, compared to age peers	Individual administration means test anxiety can be alleviated Standardised Measures verbal and non-verbal reasoning No prior knowledge required	Does not measure creativity Less effective for some culturally diverse or disadvantaged groups, especially Indigenous groups	Objective identification tool for giftedness
Group aptitude tests OLSAT K-BIT Kaufman Assessment Battery for Children General Ability tests-2 Woodcock- Johnson III Tests of Cognitive Abilities	Assesses potential for school success Compares student with age peers Standardised	Less expensive than individual IQ tests	Does not allow for test anxiety Measures verbal reasoning more accurately than non-verbal reasoning Less effective for all culturally diverse students, especially Indigenous groups	Objective identification tool for giftedness
Intelligence tests teachers can administer Slosson Intelligence test Peabody Picture Vocabulary test Goodenough- Harris Draw-a- Person test	Reasoning ability for school-type learning Compares student with age peers Standardised	Less expensive than individual IQ tests	Less comprehensive than an independent IQ assessment Some have a low ceiling	Objective identification tool for giftedness

- Gifted and Talented Education: Professional Development Package for Teachers -

Identification measure/tool	What the tool measures	Advantages	Disadvantages	Identifies gifts or talents?
Standardised achievement tests	Tests school- based knowledge and skills	Identifies current level of achievement Tests learning gains	Does not measure giftedness/ potential Less effective for some culturally diverse or disadvantaged children	Objective identification tool for identifying talented students in specific areas of achievement such as mathematics, reading, comprehension and science reasoning.
State wide literacy tests eg ELLA, SNAP, Basic Skills	Compares learning achievement with grade level peers	Compulsory	Low ceiling	As above
Kaufman Test of Educational Achievement (ACER)	Tests academic skill level in mathematics, reading, writing and oral language.	Standardised test that is easy to administer	Group test	As above
Progressive Achievement Tests-reading, mathematics (ACER)	Measures a student's current level of achievement in maths or reading	Standardised Easy to administer	Low ceiling and multiple choice	As above
Woodcock- Johnson III Tests of Achievement	Provides information about a student's academic strengths and weaknesses	Standardised	May not be relevant to Australia	As above

Identification measure/tool	What the tool measures	Advantages	Disadvantages	Identifies gifts or talents?
Tests of Reading Comprehension- TORCH (ACER)	Identifies level of comprehension compared with a large normative sample	Standardised	Does not test ability, only level of reading Low ceiling	Objective identification tool for identifying talented students in specific areas of achievement such as mathematics, reading, comprehension and science reasoning.
Neale analysis of reading ability (ACER)	Identifies level of comprehension compared with a large normative sample	Standardised	Does not test potential	As above
Final year of school exams Competition papers eg UNSW Mathematics Competition	Tests knowledge and skills learnt in final years of school UNSW competition papers assess strengths and weaknesses	Large sample to compare students' results Students who achieve high results are working above grade level	Costs to enter Multiple choice	As above
Teacher made tests/ assessments	Identifies school- based learning attainment, knowledge and skills Identifies learning gain	Identifies learning gains and compares performance with academic cohort	Does not measure giftedness Low ceiling Does not identify all underachievers or students from some culturally diverse or disadvantaged backgrounds	Objective measure of academically talented students performing in the school context.

Identification measure/tool	What the tool measures	Advantages	Disadvantages	Identifies gifts or talents?
Off-level/ Above- level tests	Identifies knowledge and skills above current grade level	Lifts ceiling that may affect results on grade- appropriate tests May identify student performance above grade level May identify underachievers who perform better on challenging tasks	Culturally diverse students or students from disadvantaged backgrounds may not perform well or have the skills to achieve well on such tests	Objective identification tool for academically talented students
Parent nomination	Observed behaviours of the child from birth	May identify early milestones Provides anecdotal evidence Parent has observed child over the long term Provides a wider view of the child, beyond the school context	Not objective Parent may not have relevant information Parent may not be able to compare objectively	Subjective identification tool for identifying potential and/or performance
Teacher nomination	Observed behaviours of student in learning setting	Teacher sees student in different academic situations Teacher can compare student's performance with that of others Teacher observes student in context other than the home	Teacher may make a judgement before using a checklist or identification support tool Teacher may disregard a student who displays largely negative characteristics	Subjective identification tool for identifying potential and/or performance

How do we put all this together?

Here is a short case study. Consider what might be the recommended response to this scenario.



Hayden is a Year 8 student attending a large school in a capital city. He is restless in science classes and does not seem to focus on work he is given. Occasionally he submits work that is of a high quality but he performs inconsistently on the class tests and across the form assessments. He recently gained a Distinction in a science competition. Hayden's mother has mentioned that he was gifted in primary school and attended a course in science for gifted students. She states that she does not know what has happened.

What identification process might be useful in this situation?

Recommended answer for 'putting it together' case study

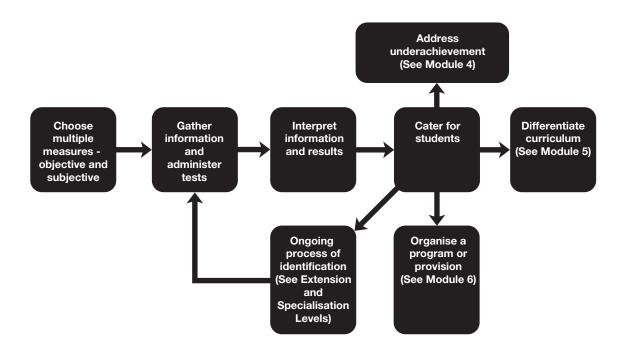
What identification process might be useful in this situation?

The Gifted Education Coordinator asks Hayden's mother and father to complete the Parent Nomination Form and asks Hayden's teachers, in all his subjects, to also complete a Teacher Nomination Form. The Coordinator asks his mother for his primary school reports and organises to administer an above-level test in science. It is also useful to look at the standardised testing that was administered by the secondary school at the start of Hayden's first year.

The identification process

Now that you have covered material on subjective and objective measures of identification, you may wonder where identification fits into the scheme of these Modules and the scheme of things in schools.

The following flow chart shows the direction that is taken in the process of identification.



1. What is the purpose of identifying a gifted student?

- (a) To compare them with other students.
- (b) To provide appropriate programs and curriculum for the students.
- (c) To give feedback to parents.
- (d) To label the child gifted and talented.

2. When trying to identify gifted and talented students we should:

(a) Use one objective measure, as these tools are not influenced by personal opinion and bias.

(b) Use one subjective measure, as teachers and parents are the best people to identify gifted and talented students.

(c) Use multiple measures, comprising a combination of objective and subjective measures, according to the definition of giftedness and talent and the program.

(d) Use one objective and one subjective measure as this will allow for balance in the identification process.

3. Explain the difference between objective and subjective measures.

4. When would you use a subjective measure and when would you use an objective measure?

5. What might be the most effective identification process for the following students?



Read the two case studies and make recommendations for each of the given situations.



Read the two case studies and make recommendations for each of the given situations. Compare your conclusions with those of other members of your group and analyse any differences.

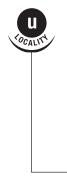
Then read the modelled responses that we have provided. Note that these are not intended to be exhaustive; you may have thought of other constructive suggestions.



George is a Year 8 student in an inner city school. He started off the year with enthusiasm but it is now Term 2 and he sometimes misbehaves in class. His written responses are of a poor quality, even though he asks sophisticated questions about topics that are of interest to him. He seems to be interested in maths and computing and the teachers of these two subjects have fewer behaviour problems than do his other teachers. Many of his teachers report that George often disrupts other students and sidetracks class discussions according to his own agenda.

Outside school George reads well beyond his years but puts in little effort when reading his English novels. When the school contacted George's parents, they were surprised that he was not performing well and shocked that he was misbehaving in class. George's mother said she thought he was clever, that he read a lot at home and constantly fiddled with the computer. George's father thought all boys were good on computers.

What tools would be most effective in the identification process for George?



Shoshanna is an Indigenous student in Year 8 who asks insightful questions in her English class. Often her work is incomplete but she always performs at a high level in class discussions. You collect the results from the state-based literacy and numeracy testing and discover that Shoshanna has performed poorly on these tests. Other teachers in the staffroom tell similar stories about the glimpses of ability they observe in Shoshanna.

What identification tools would you employ with Shoshanna?



Jane attends a central school in a rural area. She performs quite well in class but does not always hand in work on time. This is due to the many after-school activities in which she participates. Jane is a keen debater and an excellent musician. She is heavily involved in every musical performance and production the school organises. Jane is on the SCR and has a high profile in the student life of the school.

Is Jane gifted? What tools might help us to identify whether Jane is a talented student who is already working at her peak or whether she is gifted but not yet talented and filling in her time to prevent boredom?



Phil and **Juliet** are twins who are in their first Year at a secondary boarding school. They live on a large farm and are expected to help out once they are home from school. Phil is finding moving away from his parents difficult and whilst he was achieving highly at his old school, he is currently performing poorly. On the other hand, Juliet is performing at the top of her class and doing well socially.

The teachers at the school are accustomed to students finding the first term of boarding school challenging. However, it is now Term 3 and Phil is still finding things difficult. Phil's tutor teacher has heard comments in the staffroom by other teachers who think Phil is much less capable than his sister. Phil's tutor teacher feels that Phil is bright but he is not sure if he is as bright as his twin.

What could Phil's tutor teacher do to identify whether Phil is indeed gifted?

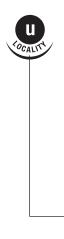
1. (b)

2. (c)

3. Subjective measures are judgements based on personal observations. Objective measures are those that produce comparable scores, eg from standardised tests, that indicate potential or performance relative to a large population of other students.

4. You should aim to use a combination of both subjective and objective measures in the identification process. Objective measures may confirm observations and judgements made when using subjective measures.

5. The following modelled responses have been provided for each case study.



What tools would be most effective in the identification process for George?

We should above-level test George in maths and computing. It may be beneficial to administer an IQ test and ask his teachers to complete a Teacher Nomination Form. It would be very interesting to analyse the positive and negative behaviours George demonstrates in different subjects. Are there different patterns of behaviour across different subjects? George's parents should also complete a Parent Nomination Form. It would also be important to collect any results from performance-based testing.



What identification tools would you employ with Shoshanna?

Shoshanna should be assessed using dynamic testing as she has not performed well in the standardised literacy and numeracy testing completed by all students in her state. The presence during this testing of a respected adult community member is desirable, to help reduce Shoshanna's anxiety by establishing trust in the assessment process. Ask Shoshanna's teachers to each complete a Teacher Nomination Form to record anecdotally the glimpses of ability to which they refer.



Is Jane gifted? What tools might help us to identify whether Jane is a talented student who is already working at her peak or if Jane is gifted but not yet talented and is filling in her time to prevent boredom?

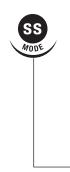
Jane's teacher looks at her reports over the years to find out whether she was always so involved in extra-curricular activites. She asks Jane's parents to complete a parent checklist of gifted behaviours. The school's counsellor is too busy to IQ test Jane so her teacher assesses Jane using a standardised ability test that she is permitted to administer, such as the Slosson. She speaks to the music teacher and asks him to complete a Teacher Nomination Form. Other teachers are also approached to provide insight into Jane's patterns of gifted behaviours.



What could Phil's tutor teacher do to identify whether Phil is indeed gifted?

Phil's tutor teacher contacts Phil's parents and faxes them the Parent Nomination Form, which they complete and return. His mother attaches a note saying that Phil was anxious about attending boarding school and was very upset to be parted from his best friend, who is at a different boarding school.

The teacher also looks through Phil's school reports from the previous year. Phil's teacher asks other teachers to fill in a Teacher Nomination Form and also looks through the competition papers that the students in his Year have completed during the year. Phil's teacher finds that Phil performs well on standardised tests and asks the psychologist to meet with Phil and administer an individual IQ test.



Using the knowledge gained in this Module on Identification, think about which identification tools would be most useful in identifying gifted and talented students in your school.

- What are the identification tools available to you, in your school? (If you are unsure, you may wish to investigate this further.)
- Which of these tools might be best suited to identifying the gifted students in your class(es)?

Using the knowledge gained in this Module on Identification, think about which identification tools would be most useful in identifying gifted and talented students in your school.

In your group, brainstorm and discuss which identification tools are available to you, in your school. Using butchers' paper or a table, classify these identification tools into the two categories of objective and subjective measures.

Think about the students you teach. Which of these identification tools might be best suited to identifying the gifted students in your class(es)?



Divide into groups, such as by stage. Using the knowledge gained in this Module on Identification, think about which tools might support you in identifying gifted and talented students in your stage.

Using butchers' paper or a table, classify these identification tools into the two categories of objective and subjective measures.

Each small group is encouraged to provide feedback to the rest of the staff, to create a whole school perspective on the identification tools available within the school.



After your small group or whole staff feedback session, use a table to collate the information presented by each stage.

Analyse the results and identify any areas of need, in either subjective or objective identification tools, or both.

Evaluate the identification tools required to support staff in the identification process. From this exercise, what identification tools do your staff have and what do they need?



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10

Psychological and Educational Assessment of Gifted Children

SUSAN G, ASSOULINE, The University of Iowa

An assessment is a data-gathering process designed to help answer questions and make decisions. Many assume that assessment and testing are synonymous; however, testing is but one of four components of an educational and/or psychological assessment. The four components are (a) standardized tests, (b) interviews, (c) structured or unstructured observations, and (d) informal procedures (Sattler, 2001). As components of a comprehensive assessment, interviews, observations, and informal procedures will be briefly addressed, but the emphasis and purpose of this chapter is to highlight and confirm testing, and standardized testing in particular, as the primary component of an assessment of a gifted student.

It is important for the reader to know what I mean by "test." The simple response is that a test is a *sample* of behavior. However, a more complex answer lies in the pages that follow.

Anastasi (1988) defined *psychological tests* as, "like other tests in science, insofar as observations are made on a small but carefully chosen *sample* of an individual's behavior" (p. 24). She described the function of psychological tests as the "measure [of] differences between individuals or between the reactions of the same individual on different occasions" (p. 3). In other words, psychological tests measure individual differences in samples of behavior. The behaviors being measured may be sampled from broad domains, such as intelligence or person*Educational tests* are also measures of samples of behavior, but, as defined by Anastasi, "have been specifically developed for use in educational contexts" (1988, p. 411). Because the distinction between psychological and educational tests is not always clear, the term *psychoeducational* has come to mean

that the information used will include results from psychological as well as educational tests.

Many adjectives have been placed in front of the word *test*, for example, authentic, criterion-referenced, standardized, or norm-referenced. *Criterionreferenced tests* differ in significant ways from norm-referenced or standardized tests. Criterion-referenced tests (e.g., spelling tests) are designed to yield information that suggests an individual's degree of competency or mastery of a pre-established level of performance or criterion. Criterion-referenced tests are an example of the information from a criterion-referenced test can be helpful in determining curriculum.

An authentic assessment analyzes a student's An authentic assessments are especially subjective in nature. Often, the student's work, as well as the analysis of the work, is kept in a portfolio or folder, and sometimes an authentic assessment is called a *portfolio assessment*. Although the adjective *authentic* implies that this form of assessment is more valid than a standardized or norm-referenced test, that is not the case. Authentic assessment and can be rich with information about a learner.

Norm-referenced tests are developed so that a score can be compared to a representative group of individuals referred to as a normative sample. In order for the comparison to be valid, a norm-referenced test must be administered under the same (i.e., standardized) conditions for everybody. In this chapter, the terms norm-referenced and standardized are used interchangeably. Both large-group administered tests of achievement, such as the lowa Tests of Basic Skills (TTBS), and individually administered intelli-

gence tests are examples of norm-referenced or standardized tests.

Norm-referenced or standardized tests are perennially criticized. Wiggins (1993), for example, criticizes testing with the assertion that: Students are tested not on the way they use, extend, or enticize "knowledge" but on their ability to generate a superficially correct response on cue. They are allowed one attempt at a test that they know nothing about until they begin taking it. For their efforts, they receive—and are judged by—a single numerical score that tells them little about their current level of progress and gives them no help in improving (p. 2).

evaluative observations by teachers," even though tice of standardized testing as well as criticisms of testing have remained consistent these observations may be "flawed . . . subjective dents' performance could be wrong, misguided, or biincluding professional educational publications such as Phi Delta Kappan. For example, in the September throughout the latter half of the twentieth century, and argues that we should be suspicious of the motives of those advocating standardized testing. Wassermann . . . [and] it's true that teachers' judgments about stu-Similar attacks are found in a variety of publications, 2001 issue. Wassermann laments that both the pracasserts that educators should omit testing from the assessment process and revert to, "the use of informed, standardized ased" (p. 36).

In this chapter, I propose that the responsible educator should ignore Wiggins' and Wasserman's advice and (a) recognize that standardized tests can be extremely useful in understanding the learning needs of a gifted student, and (b) advocate for the synthesis of information from standardized tests as well as from informal assessment procedures to develop programs for gifted students.

The first part of this chapter provides the reader with an appreciation of standardized testing through the presentation of a brief history of norm-referenced testing, theories of intelligence, and giftedness. The second part presents two case studies and discusses testing issues as they relate to the field of gifted education. The case studies demonstrate clearly the value of information from standardized testing for making programming and placement decisions about gifted students. The chapter concludes with a list of "consumer guidelines" that summarize important issues when assessing gifted children.

How Has the History of Testing Influenced Today's Practices in Gifted Education?

aunch a study of 1,528 gifted children. The results of which was published in 1925 (Terman, 1925). In genius to gifted (Feldhusen & Jarwan, 1993). Also, Genius, which established the link between the terms intelligence and genius. Lewis Terman published in ual intelligence test. Terman called his version of ntelligence Scale and, in 1922, used this scale to Terman's study were published in a series entitled The Genetic Studies of Genius, the first volume of Terman's work, we see the shift in terminology from through Terman's work we see the forging of the In 1869 Sir Francis Galton published Hereditary 1916 the U.S. version of Binet and Simon's individthe Stanford-Binet strong link between intelligence testing and gifted. Binet and Simon's test

Terman's extensive longitudinal studies established the foundation for identifying gifted students on the basis of intellectual potential as measured by individualized intelligence tests. However, Terman was sensitive to the limitations of measuring "intelligence," and early in the days of developing the Stanford-Binet Terman cautioned test users: We must guard against defining intelligence solely in terms of ability to pass the tests of a given intelligence scale. It should go without saying that no existing scale is capable of adequately measuring the ability to deal with all possible kinds of material on all intelligence levels. (Terman, 1921, p. 131) Terman's precautionary statements were prescient to the theoretical work dominating the last quarter of the 20th century. During the twentieth century, the conceptualization of intelligence evolved from a single point of view (i.e., Terman's Stanford-Binet) into a complex perspective with several different orientations, three of which are described below: psychometric, cognitive molifiability, and information processing. Each orientation has influenced deucational practice; at the same time, educational practice has influence tests.

The other costs. The other and most research-based tradition of measuring intelligence is the psychometric approach (McGrew & Flanagan, 1998). *Psychometrics* is defined as the quantitative measure of psychological traits or attributes (Sattler, 2001). The psychometric

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apprrach has resulted in thousands of tests; according to the 1999 edition of *Tests in Print*, there were 2.939 commercially available tests. Each test is concerned with measurement issues of reliability and validity, tacteracy) of scores turned by test-takers. *Validity* is a more esoteric concept, but a brief definition of validity refers to its "appropriateness" to the domain being measured. (See Anastasi, 1988, or Hammill, Brown, & Bryant, 1992, for more detailed explanations of reliability and validity.)

The psychometric approach to testing dominates the present-day educational system, and with good reason, as the information from norm-referenced testing can be tremendously useful in both placement and programming decisions. The psychometric approach continues to evolve. Some types of psychometric testing, for example, Callon's measurement of sensory discrimination abilities as a way of measuring intellgence, are now extinct. Other types of psychometric tests have evolved, for example, individualized intelligence, are now extinct. Other types of psychometric tests have evolved, for example, individualized intelligence tests; and their evolution is complemented (not replaced) by the cognitive modifiability and information-processing approaches.

proximal development (ZPD). ZPD is defined mance in isolation and one's performance when Assessing how an individual functions within an environment represents an interactive or dynamic apnature of the psychometric approach) and telligence. McGrew and Flanagan (1998) associate cognitive modifiability theories with Vygotsky's zone as. "the difference between a person's ... performediated by hints, guided instruction, and suggescharacterizes cognitive modifiability theories of intions by another individual" (p. 30). Dynamic assessments evolved from cognitive modifiability theory, and, by their nature, dynamic assessments correspond to the gifted educator's vision of diagproach to assessment (as opposed to the more "stanostically assessing a student's learning needs and matching those needs with an appropriate prescription for instruction. nc" to

The *information processing* approach to intelligence is characterized by analyses of how information is received and mentully operated upon during problem solving and everyday tasks Information processing is still relatively new, it only entered the psychological scene in the 1960s. Naglieri and Kaufman C2001) refer to tests that have been developed from the information processing tradition as a new breed of instruments that provide, "cognitively-based alterna-

tives to traditional IQ test technology that has dominated the field during most of the 20th century" (p. 152). Measurement of processing components by this new breed of instruments still relies on psychometric procedures and principles.

Satiler (2001) provides a fascinating timeline that reviews the historical markers in cognitive and educational assessment. The timeline presented in Table 10.1 includes important dates and notes about the evolution of theories of intelligence testing as they relate to gifted education. Much of the information in Table 10.1 draws heavily from Sattler and McGrew and Flangean (1998).

What Types of Educational Decisions Are Conducive to Assessment?

The purpose of an assessment is to gather information relevant to making a decision. In gifted education, decisions about students usually involve (a) placement into a program and/or level and (b) type of curriculum to use within the program. Until recently, the primary reason for assessing an academically talented child was to make a decision regarding placement. For gifted children, this traditionally has been to obtain a measure of general intellectual ability (1Q). Group intelligence texts are often used as a way of ity, but beyond that their uses with individual students published in 1995, and the newly revised Cognitive Abilities Test (CogAT) Form 6 (Lohman & Hagen, 2001). Both tests were concurrently normed with a The quantitative, and nonverbal-was initially screening for students of high academic abilare limited. Two tests widely used are the Otis-Lennon School Ability Test (OLSAT)-7th Edition, OLSAT, which yields a verbal score, a nonverbal score, and a total score, was normed at the same time as the Stanford Achievement Tests and the Metropolitan Achievement Tests. The CogAT, which yields a score measuring reasoning in three donormed along with the Iowa Tests of Basic Skills. Combining the information, for example, from the CogAT and the ITBS. can help educators in their degroup-administered achievement battery. mains-verhal. cision making.

Despite improvements in the group-administered tests of general ability, an individually administered intelligence test remains the best instrument for identifying gifted children on the criterion of general ability (see Table 10.2, Part A). Sattler (2001) tecom-

Table 10.1 Twentieth Century Timeline of Cognitive and Educational Assessment

- 1904 Spearman introduced the concept of a two-factor theory of intelligence—a general factor (g) of intelligence and one or more specific factors (a). Spearman's g emphasized intelligence—mental ability—us a unitary trait.
- 905 Alfred Binet and Theodore Simon developed a 30-term test intended to measure judgment, comprehension, and reasoning of school-aged children (based upon testing that began in the early 1890s). This effort resulted in the Binet-Simon Scale.
- (916 Stanford University Professor Lewis Terman published an extended standardized form of the Binet-Simon Scale under the name of the Stanford Revision and Extension of the Binet-Simon Scale Trenton's scale served as the foundation for future applications of the psychometric theory of intelligence teating at measurement. This scale and its subsequent revisions represent the classic application of Spearman's theory of intelligence to measurement. The foundation is subsequent revisions represent the classic application of Spearman's theory of intelligence to measurement. The concept of IQ (intelligence quotient), as a ratio of mental age to chronological age, was introduced with Terman's scale. IQ was essentially an operational definition of general mental age to chronological age, was intro-theorem in the forman's general mental age to chronological age. Was intro-theorem and 's paraman's general results.
 - 1936 The lowa Every-Pupit Tests of Basic Skills (haror remained the lowa Tests of Basic Skills) were developed by E. F. Lindquist and his colleagues at the University of lowa. The ITBS reprosents a large-scale achievement-testing program. Many gifted programs use scores from tests like the ITBS to identify students for programs.
 - 1937 The 1916 version of the Binet-Simon Scales was revised by Lewis Terman and his colleague Maude Merrill and renamed the Stanford-Binet Intelligence Scale.
- 1938 Louis Thurstone introduced a "multiple" intelligences theory. In direct contrast to Spearman's gi. Thurstone's theory, and the resultant test, the Prirmary Mental Abilities Tests, portrayed intelligence as equally weighted multi-
- ple abilities: including, vorbal, number, and space ability.
 1939 David Wechster published the Wechster-Bethevue Intelligence Scale, Revisions of this scale, as the Wechster Adult Intelligence Scale (WAIS) were published in 1955, 1981, and 1997. (Note in 1914 Duvid Wechster was introduced to the measurement of intelligence through his experience as a U.S. Array private in the Array's large-
- 949 The Wechkier Intelligence Scale for Children (WISC), designed for children ages 6 to 16, was published. The Wechkier tests use a point-scale format. The underlying assumption of a point-scale format is that hemis are designed to measure specific functions or aspects of behavior at every age. In 1967 the Wechkier Prevetool and Primary Scale of Intelligence (WPSI), designed for children ages 3 to 7, was published in 1991, the WISC. Was revised and renumed the WISC-R was revised and renumed the WISC-R.
- Wechsler considered RQ, defined as the ratio of mental age to chronological age, as unsuitable, especially for adults. He developed the notion of a *deviation* IQ in which the examinee's score is compared with scores carried by other individuals of the examinee's age.
- 1960 The best items from the two 1937 forms of the Stanford Binet Intelligence Scale were selected and combined into one form, the Stanford-Binet Form L-M *IL* is for Lewis Terman and *M* is for Maude Metrill. Terman's colleague and co-developer of the Stanford Binet. New norms for the 1960 form were published in 1972. For the next 25 years, the Stanford-Binet (Form L-M) was regarded as an extremely reliable and valid instrument for use in predicting academic success. It was designed to be used with individuals as young as two years of age through adult.
 - 1970 Congress mandated Secretary of Education Sidney Marland to generate a report on the Education of Gifted and Talented (published in 1972 and continonly called the Marland Report). From this report, a national definition of gifted and talented students was generated (see Table 10.2). This definition is still used in many states, and given its mature seems to ensure that standardized tests—especially tests of intelligence—will continue to play a role in the identification of gifted students.
- 1972 Professor Julian C. Stankey initiated the Talent Search Model. Although the Talent Search only toxed a few humdred students in the early 1970s. by the beginning of the twenty-first century, hundreds of thousands of students are participating annually in the Talent Search.
- 1975 U.S. PL. 94-142, protecting the right to equal education for all handicupped children, was passed. In 1990 this law was updated and renumed the Individuals with Disabilities Education Act—IDEA: There was a reauthorization in 1997, and amendments in 1990? PL. 94-142, was a watershed in education; educators and parents are now more aware of assessment and special needs, as well as the requirement to accommodiate students with special
- 1983 Howard Gardner proposed a Theory of Multiple Intelligences. Gardner's theory resulted in a variety of instruc-
- 400ml and assessment strategies, however, no standardized test exists to measure the multiple intelligences (985 Robert Sternberg introduced a Triarchic Theory of Intelligence Sternberg's theory, like Cardner's, is also in contrast to a single, unitary view of intelligence. McGrew and Planugan (1998) stated that Sternberg's theory has not held up well when judged against established standards of validity.

(continued)

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Table 10.1 Continued

- 1986 The Stariford-Binet Intelligence Scale: Fourth Edition (SB: IV) was developed by R. L. Thorndike, E. Hagen, and J. Suttler. The SB: IV introduced users to a factor structure, which includes a general intelligence factor, several general meniory factors, and several specific factors such as verbal, quantitative, and abstract visual reasoning factors.
- Note: Silverman and Kearney (1992) made a strong case for continuing to use the Stanford-Binet (L-M) with extraordinarily able students because it is more effective at differentiating exceptionally gifted from moderately gifted children. However, Robinson (1992) countered Silverman and Kearney with two important points. First, the norms of the SB: IV are superior when compared to the 1972 norms of the Samford-Binet (L-M). In fact, with the publication of this chapter we are now vere fifteen years beyond the 1986 norms of the SB: IV, When the Stanford Binet 5 is published (scheduled for release after 2003), the availability of more recent norms will make a compelling argument for its use. Robinson's (1992) second point concerned the usefulness of the factoral structure (e.g., memory, wells, quantitative, and abstract visual reasoning) of the SB: IV, and the "power" of that structure for understanding a child's pattern of abilities.
 - 1988 The Jacob K. Javits Gifted and Talented Students Act reestablished modest (not exceeding 10 million dollars on an annual basis) federal funding for gifted programs.
- 1900 The Differential Abilities Scale: a revision and extension of the 1980 British Ability Scales (Ellion, 1990) was published. This is a relatively new instrument and reflects information-processing theories and approaches to understanding human ubilities.
- 1993 The National Excellence Report. A Case for Developing America's Talent (Ross, 1993) was published by the U.S. Department of Education's Office of Educational Research and Improvement. The report offers a new federal definition which has been adopted by several states (see Table 10.2, Part B).

Table 10.2 1972 and 1993 Federal Definitions of Gifted and Talented

Part A: 1972 Mariand Definition (Public Law 91-230, section 806)

Gifted and talented children are those identified by professionally qualified persons, who by virtue of outstanding abilities are capable of high performance. These are children who require differentiated educational programs and/or services beyond those normally provided by the regular school program in order to realize their contribution to self and society.

Children capable of high performance include those with demonstrated achievement and/or potential ability in any of the following areas, singly or in combination:

- 1. general miellectual ability
- specific academic aptitude
 ereative or productive thinking
 - creative of productive think
 Lendership ability
- 5. Visual and performing arts
 - visual and performing
 psychomotor ability⁼

It can be assumed that utilization of these criteria for identification of the gifted and talented will encompass a minimum of 3 to 5% of the school population.

Part B: 1993 National Excellence Report Definition (Based upon the Federal Javits Giffed and Talented Education Act) Children and youth with outstanding talent perform or [who] show the potential for performing at remarkably high levels

of accomplishment when compared with others of their age, experience, or environment. These children and youth exhibit high performance capability in intellectual, creative, and/or artistic areas, possess in un-

usual leadership capacity, or exect in specific academic fields. They require services or activities not ordinarily provided by the schools.

 Outstanding talents are present in children and youth from all cultural groups, across all economic strata, and in all areas of human endeavor.

mends that placement decisions be based only on the Wechsler Scales (Wechsler, 1991), the Stanford-Binet Intelligence Scale: IV (Thorndike, Hagen, & Sattler, 1986), or the Differential Ability Scales (Elliott, 1990).

Placement is important, but it should not eclipse the equally important goal of programming. An assessment of a gifted child must go well beyond the administration of an intelligence test (a measure of general school ability), and should include measures of achievement, as well as the other components of an assessment, interviews, structured or unstructured observations, and informal procedures. In sum: the assessment should go beyond placement and should provide information that can assist in educational provide information for both placement and programming is demonstrated in two case studies (see Figures 10.1 and 10.2).

Iwo Case Studies

The two separate cases in Figures 10.1 and 10.2 demonstrate the usefulness of tests as part of the assessment process for gifted placement and programming. Figure 10.1 is a report of an assessment of Fred, an extremely able student. At the time of the report, Fred was placed in first grade in accordance with fits age. However, as noted throughout the report, the first grade curriculum was so underchallenging that Fred was very frustrated, and this paremis requested a grade-skip from first to seventh grade in their positions and were ready to go to court for a placement ruling.

Throughout the report, there is a School Psychologist's Perspective of the Assessment (SPPA), which details the motivation for which tests were selected as well as the interpretation of the results. The purpose of reproducing the assessment report and the SPPA is not to recommend specific tests, but demonstrate how the tests "saved the school day" for this very gifted student.

For Fred, both the immediate as well as the longterm indicators of success were extremely positive, Six months after the results from the psychocducational assessment were used to accelerate Fred from first grade to a third/fourth grade class, the unanimous conclusion was that the placement and the program were tremendously successful. The school personnel galled a, new appreciation of Fred's ability and

achievement, and the discussions about Fred opened up new opportunities for other gifted students. Fred entered Purdue University at the age of eleven. He graduated from Purdue with a Doctor of Pharmacy degree at the age of 17, and enrolled in a Ph.D. program at Rockefeller University in New York.

process of using the IAS occurred with Fred, and it Fred's case was litigious for two reasons: (a) he heir informal observations. Cases like Fred's do not ude, and achievement to make decisions about curred prior to the development of the lowa Acceleration Scale (IAS), which is discussed below However, a discussion similar to that promoted by the was that group discussion, based upon assessment was extremely capable, and (b) there was a great deal of defensive reluctance by the educators because the results from the screening were incongruent with have to be controversial if educators and psychologists use the information from tests of ability, aptiplacement and programming. Fred's assessment ocdata, that fostered an appropriate placement and proand sections of which are presented in Figure 10.2. gram for this extremely gifted student.

pain to this extension y gives more and An essential component to Fred's assessment was the professional administration and interpretation of the tests within the context of the information that had been gathered informally. An appreciation for the special programming needs of academically able sutdents also is crucial. Additionally, it was important to convey this information to parents and educators in a way that would serve the child.

What Is the Role of Assessment in Whole-Grade Acceleration Decisions?

Despite the unequivocal evidence (DeHaan & Havighurst, 1961; Gallagher, 1996; Kulik & Kulik, 1984) supporting whole-grade acceleration as a programming option for gifted students, acceleration or grade-skipping—remains a contentious issue.¹ Prior to the publication of guidelines for grade advancement (Feldhusen, Prector, & Black, 1986), most decisions concerning grade acceleration were based upon the selective biases of a school administrator. In some instances, discussion about acceleration is precluded by a district's extant policy *agamst* acceleration. The Feldhusen et al. article was helpful to many gifted educators and parents of gifted students who found themselves in the role of advocate for acceleration without the tools to advocate effectively.

^{1.} See Chapter 21 by Kulik.

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The Connie Belin & Jacqueline N. Blank International Center for Gifted Education and Talent Development

SCHOOL PSYCHOLOGIST: Susin G. Assouline, Ed.S., Ph.D. EVALUATION DATE: November 12-14 REPORT DATE: December 1 BIRTHDATE: April. 11 AGE: 6 years, 7 months STUDENT: Fred D.

Reason for Referral'

Dr. D. refer his son. Fred. to the Belin-Blank Center for an evaluation of Fred's academic achievement and for recommendations based upon that evalua-The superintendent of schools recommended that tion. At the time of the referral, Fred had been withdrawn from first grade in the local public school and was home-schooled.

Fred had been evaluated previously at the age of 5 years, 2 months, and 6 years, 5 months. Each of these evaluations included the administration of an individual intelligence test (Stanford-Binet: Fourth Edition and the Wechsler Intelligence Scale for ity. The academic achievement tests administered during the previous evaluations were designed to Wide Range Achievement Test-Revised (WRAT-R) and the Basic Achievement Skills Individual Screener. On these screening instruments, Fred perand spelling. The two prior assessments resulted in two reports, and the primary recommendation from best way in which to moet his needs for academic stimulation and appropriate socialization with his Children-Revised), and each evaluation resulted in confirmation of Fred's superior intellectual abilprovide a general indication of Fred's achievement in reading, muthematics, and spelling. The tests administered at the age of 6 years. I month were the cach of those reports was that consideration be given to Fred's program of study to determine the formed at the seventh-grade level for reading, math, Background Information and Observations: schoolmates.

my observations of Fred's ability to concentrate and attend to tasks verified the previously reported ob-Reports from the previous evaluations indicated that Fred had excellent concentration and attention, and servations

(SPPA): A good assessment begins with a question School Psychologist's Perspective of the Assessment to be answered. There are two questions concerning this student: (1) What is the appropriate grade placement? (2) What is the appropriate academic program?

(At the time of this assessment, these were the most current results available.) There was no need for a month period, and each had vielded similar results. ligence test had been administered within a sixteen-(SPPA): Two individual administrations of an intelthird administration of an intelligence test.

priate for a placement or a program decision. This is However, the information from the previous admincient. The measures used were designed for screening; the information from them was inapproobvious in the vague recommendations that were istrations of measures of achievement was insuffipresented with the results of these previous assessments. The statement concerning Fred's ability to concentrate is an example of nontest data that was part of the assessment. This observation is used in the recommendations

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needs and were requesting that the school find an optimal match between the curriculum and Fred's It was extremely important to determine how Fred's are "lots of bright children" in Fred's class, and portant because abstract reasoning skills are part of In the parent interview, Dr. D. mentioned to the school psychologist that some educators believed that Fred was being pushed at home and that Fred was not ready for advanced material. During the presentation of the results to Fred's educators, the On the contrary. Fred was doing what he was able to do. His parents were responding to his academic abstract reasoning skills compared to his age-mates as well as to older children. The comparison to agemates responded to educators' concerns that there Fred's academic needs are no different from theirs. The comparison to older children was equally imschool psychologist corrected this misconception. an advanced curriculum that was under consideraibility and achievement. SPAL tion. by the 6 1/2-year-olds in the normative sample was 34). Thus, compared to the highest score carned by Stanford Diagnostic Reading Test (Green Level, Stanford Diagnostic Mathematics Test (Green Sequential Tests of Educational Progress termine Fred's academic progress relative to his test of figural reasoning. For this test, the individual is presented with 60 meaningless figures and is asked to discern the nature of the pattern for each figure and complete the relations. Fred correctly camed a score surpassing 98% of the 8-year-olds in his age-mates in the normative sample, he was able to answer correctly 7 more items than the top-scorreason by analogy, and organize spatial perceptions this well-standardized instrument, is superior-even During an interview with Fred's father. Dr. D. he described Fred's routine at home. The family chose not to have a television in their home, and evenings were devoted to study and exploration of world with considerable factual knowledge; however, all evidence indicated that he was ready not only for the exposure to this knowledge, but to process the information with reasoning skills that surpass those of bright students in higher grades. The results of Superior ability to process information and to attend One of the goals of the present evaluation was to deability. Fred was asked to complete the Raven's Progressive Matrices (RPM), an untimed nonverbal completed 41 out of 60 figures in 35 minutes and the normative sample (the highest raw score earned ing individual(s). This is a significant discrepancy from the highest score earned by his age-mates and confirms that Fred's ability to form comparisons, into systematically related wholes, as measured by events. It was obvious that Fred had been presented Fred is right-handed and has worn corrective lenses when compared to children two years older than he. (STEP): Basic Concepts and Computation Raven's Progressive Matrices (RPM) Standard Reading Inventory (SRI) the RPM support this observation. Interpretation of Results: Level, Form A) for four months Form A) **Fests Used**

to learning tasks is rare and requires careful tailor-

Finding the optimal match between Fred's ability and achievement was the reason for completing the

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ing of an individualized educational plan that will provide an optimal match between Fred's ability and achievement. The two previous psychoeducational reports included a screening of spelling, reading, and mathematics. The present assessment of reading and mathematics was more diagnostic in nature.

Reading: The Green Level (Form A) of the Stanford Diagnostic Reading Test was administered. The Green Level is designed for students in grades 3, 4, and 5 and provides comparative scores for a sample of students in those grades. Fred worked quickly through the sub-tests. The final passages were to be read silently, but Fred subvocalized each of those pussages. Even though he worked quickly, he was not impulsive in his responses and he rechecked his answers to the questions. When compared to fourth graders, Fred carried the percentile rankings reported below. Grade equivalent scores represent the typical performance of suudents in a specified grade. Because Fred is not a typical student, grade equivalents are not generally good eximparative indicators, however, for our purpose of determining where to begin instruction, it was appropriate.

Stanford Diagnostic Reading	Per- centile	Grade Equivalent
(Green Level-Form A)	(Comp fourth	(Compared to fourth graders)
Auditory discrimination	92	5.7
Phonetic analysis	95	>12
Structural analysis	83	6.8
Auditory analysis	5	3.9
Literal comprehension	74	4.7
Inferential comprehension	43	3.7

The "lowest" grade equivalent score (earned for linferential comprehension) was two grade levels above his present placement. The highest (earned for phonetic analysis) was beyond grade 12. Relatively speaking, Fred's auditory vocabulary, literal comprehension, and inferential comprehension, as measured by these subtests of the Stanford Diagnostic Reading Test, are not as well developed as his ability to discriminate auditorily, analyze the relationships between sounds and letters (phometic

assessment. The screening instruments from the previous assessments were inadequate for this task. The tests that were chosen were diagnostic in nature and were administered so that specific suggestions regarding programming could be made.

amilysis), and decode words through the analysis of word parts (structural analysis). In other words, the skills measured by the cognitively less demanding tasks of recognizing words and decoding them are more advanced than his *understanding* of common words and his general reading comprehension, especially his inferential comprehension. The Standard Reading Inventory (SR1) was also administered, and the hypothesis that Fred's decoding skills were more developed than his comprehension skills was confirmed by the results of the SRL He orally read the fourth- and fifth-grade passages with only a few minor promuciation errors. It was noted that he read in a monotone. We did not go beyond the fourth- and fifth-grade passages, but he could probably read passages at a much higher grade level. However, it is unlikely that he could compreleved However, it is unlikely that he could comprelevel However, it is unlikely that he could comprelevel However, it is unlikely that he could compretered here the the could compretered here the could compr Instructionally, Fred reached frustration (correctly answered four out of ten comprehension questions for both silent and oral reading) at the fourth grade level. He correctly answered four of the ten comprehension questions for the fifth-grade oral reading passage, but he answered only two of the ten comprehension questions correctly for the fifth-grade silent reading passage. He subvocalized while he was reading this passage. Coupled with the information from the Stanford Diagnostic Reading Test, it appears that providing material at an advanced third- or fourth-grade level would be instructionally appropriate. Fred's ability to decode written words will continue to be far superior to his ability to comprehend for several more years. Fred could probably read a sixth- or seventh grade social studies text, but his hinking is not yet sophisticated enough to comprehend the material fully and draw inferences. He needs time to allow meterlying cognitive functions necessary for comprehending to develop and mature. Reading: Fred needs only limited instruction in decoding or phonics. It is recommended that an instructional program emphasize the development of his comprehension skills. His overall comprehenston is at an advanced third-grade or beginning fourth-grade level, and instruction with materials at

Since reaching is one of the most important elementary school activities, a careful assessment of Fred's reading skills was critical. Additionally, this case almost went to court because the initial screening information suggested a "reading level of seventh grade," and the parents used that information to advocate that Fred be placed in grade 7. School personnel reacted strongly against this and wanted to keep Fred in grade 1.

-VdSS

The distinction between Fred's decoding skills and his comprehension skills was important because it begins to explain why parents and educators had seemingly incompatible programming goals. The parents were focusing on the highly developed decoding skills (especially as reported in a previous screening assessment), but the educators were convinced that Fred would not survive in seventh-grade classes—even though he could "read" the material. All of the above information, which was based upon lata from the assessment, leads to the recommendation below.

The Basic Concepts test designed for grades 6–9 was too difficult, as evidenced by his performance: Fred required all 40 minutes to answer 24 of the 50 questions: and he correctly answered only 14 questions, which placed him at the 8th percentile when compared to ninth graders. It was decided not to give him the middle school/junior high level of the Computation test. There was concern that he would be unnecessarily frustrated.

Therefore, the lower level of the STEP Basic Concepts and Computation tests, which were designed for grades 3–5, was administered. On this level of the Basic Concepts test, Fred correctly answered 38 out of 50 items in 35 minutes. When ecompared to second-semester fifth graders, this score is at the 83rd percentile. Eight of the 12 missed items required manipulation of number concepts. On the Computation subtest, Fred correctly answered 53 out of 60 items in 28 minutes. This secone is at the 90th percentile when compared to accord-semester fifth graders.

too quickly into pre-algebra and algebra because he Recommendation for Mathematics: The fact that Fred did so well on both of the tests designed for third through fifth graders indicates that he has relatively few, if any, gaps in his mathematics knowledge base. The biggest concern is that he not rush needs time to allow for the development of the necessary cognitive structures that will foster success in more abstruct muthematics such as algebra and geometry. Unlike many extremely precocious students. Fred has not developed sloppy habits. He did not do all of his work in his head; rather, he was careful to work out the problems on scratch paper. However, if he remains unchallenged, he will most likely develop poor work habits because performing computations mentally will be one of the only ways that he can mentally challenge himself.

Summary and General Recommendations:

Given Fred's superior performance on the two previously administered individual intelligence tests, as well as his superior performance on the RPM, one would predict that his academic achievement would be at least two grade levels above that of his age- or grade-mates. Indeed, Fred has fully utilized his superior academic ability and has achieved at a level commensurate with that ability. Fred has excellent commensurate with that ability. Fred has excellent commensurate with that ability. Fred has excellent commensurate with that ability and could easily

SSPA: For a more complete discussion of elementary students who are mathematically talented, see Jane and Johnny Love Math: Recognizing and Encouraging Mathematical Talent in Elementary Students (Lupkowski & Assouline, 1992) and Developing Mathematical Talent: A Guide for Teachers and Parents of Gifted Students (Assouline & Lupkowski-Shoplik, in press).

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these levels would probably provide sufficient challenge. To continue developing his comprehension skills, Fred needs: (1) time for the underlying cogmitive processes to mature, and (2) the opportunity to interact with students who are at a similar level of comprehension. These students will likely be found in higher grades. If Fred is accelerated into third or fourth grade, it would be appropriate to place him with the most advanced reading group. Although his reading comprehension skills are (relatively) not as superior as his skills at decoding words, they are still superior when compared to those of his age- or grade-mates. The fact that his ability to comprehend ranges from two to four grade levels above his age-mates means he will need special arrangements for reading instruction. A whole-language approach to reading instruction instruction might foster fred's progress in each of these areas. However, it would be important *not* to use a grade-level basal for whole-language instruction. Rather, Fred will need exposure to literature such as that provided by the Great Books Series. Mathematics: Mathematics was the other curriculum area for which programming recommendations were needed. Three mathematics tests were administered before finding one that was appropriately difficult. The Green Level (Form A) of the Stanford Diagnostic Mathematics Test was the first test administered. The green level was developed for students in grades 4, 5, or 6, Fred finished the whole test in Jess than an hour (95 minutes is allowed). When compared to fifth graders, he carned the following percentiles for the three sub-tests:

Subsect	Percentile Rank Compared to
Number system and numeration	86
Computation	85
Applications	94

The Stanford Diagnostic Mathematics Test did not appear to be sensitive enough to prescribe specific instruction. Therefore, the Basic Concepts and Computation tests of the Sequential Tests of Educational Progress (STEP) were administered.

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succeed in third- or fourth-grade material. For some tasks, such as decoding and basic computation, even fourth-grade material will be too easy for him.

The more routine school tasks (i.e., decoding of words and basic mathematics computation) are about as fully developed as can be expected for a o 'v-year-old child, and his ability to concentrate lenged he may love his love for learning and will and attend has been well honed. Fred is at a critical point in his academic development. He will not love his ability to learn, but if he is not sufficiently challikely develop poor study habits.

- · With regard to his general reading comprehenston, placing him in an advanced third-, fourth-, or fifth-grade class seems most appropriate.
 - make sense to consider whole-grade rather than subject-matter acceleration. For subjects - Because his reading and math comprehension skills seem to be equally developed, it would such as science and social studies. Fred is probably ready to begin receiving instruction at a third-, fourth-, or even fifth-grade level. Pre-testing in these subject areas would be appropriate.

Dr. D has tapped into his son's strengths and has helped his son realize those strengths. Fred took the His are able and willing to fill in any gaps in Fred's in-Fred by two or more grades. When students who have superb ability to learn are tutored at home, it is sometimes believed that the parents' opinion is suspect because parents have invested so much in their child's education. My sense of the situation is that tests at the Belin-Blank Conter by himself and havior was more similar to that of a mature, ex-The school system is fortunate that Fred's parents struction that might occur as a result of accelerating demonstrated extremely mature behavior. His bedemeanor is like that of a well-behaved upper eletremely intelligent eight- or nine-year-old. mentary student.

vided by his purents, but he needs the opportunity to interact with peers. He also needs exposure to ex-Fred has achieved through home schooling protracurricular activities and contests, such as spelling Students, and science projects that are typically asbees, the Mathematical Olympiad for Elementary signed in the upper elementary grades. In determin-

ing an app should be p well as the able setting The receiv tor(s) shou

An unders pure his or is younger communic important.

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Figure 10.

for whole-grade acceleration, one goal of the IAS is to provide exclusionary indicators of the appropriateness of acceleration as an educational option for sudents in kindergarten through eighth grade. developed to Southern IAS), a guid sions and de ation Scule (Janons abou moved the c tion forward manual for Lipscomb. 1 gle definitio Lupkowski Assouline,

score representing superior intelligence is required cisions using the IAS. Both group-administered and individually administered test scores can be used. A before other indicators on the IAS can even be

propriate placement for Fred, attention puid to the most academically contfort- ug, that is, third, fourth, or fifth grade, as we most emotionally confortably setting, ving teacher(s), parents, and administra- uid discuss the most appropriate setting.
standing teacher who can adequately pre- r her class to welcome a new student (who c, yet equally or more able), and who can cale effectively with the parents is most
e recommended that Dr. and Mrs. D con- to provide enriching educational experi- o for their son. However, it was suggested hese experiences might focus on opportu- that are not traditionally offered in the e school. For example, Fred would prob- do well if exposed to one or two foreign ages, as well as a musical instrument, intes in sports and social groups such as Scouts are also to be encouraged. When old enough (probably around age 11 or fred would probably benefit from summer
antic programs offered by universities as the University of Iowa. SSPA: w-up every three or four months with the SSPA: Pallank Center Staff, to be initiated by Dr. Follow-up is a critical component of a successful Mrs. D. is strongly recommended. assessment and intervention.
1. Psychological Interpretive Report.
 n and Jones (1991) and Passow (1993) The indicators of the IAS include school-related debute about the advantages of accelera- id. In 1993 Assouline, Colangelo, and published the <i>lowa Acceleration Scale</i> published the <i>lowa Acceleration Scale</i> body size and fine and gross motor coordination; in- idance tool designed to facilitate discus. body size and fine and gross motor coordination; in- idance tool designed to facilitate discus. body size and fine and gross motor coordination; in- idance tool designed to facilitate discus. body size and fine and gross motor coordination; in- idance tool designed to facilitate discus. body size and fine and gross motor coordination; in- identic tracts with others; and attitude and support of the <i>lowa Acceleration Scale</i> (1AS) the <i>lowa Acceleration Scale</i> (1AS) denti life. These issues represent the informal com- 1999) was published. The <i>lowa Acceler</i> (1AS) and the accompanying manual were The IAS also requires information from tests of
aca aca one

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Figure 10.2 The lowa Acceleration Scale.	Name of Person Completing this Form: Mrs. E. Position: G77 Coordinator
IAS Example: Jenny The Iowa Acceleration Scale Form*	Who initiated the consideration of acceleration? Student X (see attached letter) Parents
Section 1: General Information	(Sections II through V have been omitted from this figure. See the IAS manual for a detailed description of
Part A: Student Information	these Sections.)
Student Name Jenny	
Student Address 1234 Small Road	betten VI: Academic Ability and Achievement
Mid-Sized Town, Midwestern State 12345	Part A: Ability Test Results
and a second	observation of the state of t
Present School Presidential Elementary Present Grade 3nd Proposed Grade 5th School Address 5678 Main Street	NOT is although an IQ score is not a perfect measure of ability, research has shown that individualized intelligence test scores are excellent predictors of academic success.
Mid-Sized Town, Midwestern State 12345	for each time helpers' <i>circle the number</i> to the ciefts of the recoverse that have descentes the excepts of the distribution
Year Month Day	For each neur neurose, create me number to the right of the tespones that best describes the results of tests which the student has completed.
lay's Date)	On an individualized intelligence test (name of test: <u>WISC-III</u>) administered within the Jast three years, the stu- dent's overall 1Q score was:
	Please cincle one
	Between one and two standard deviations above the mean (115-129)
Fart B: Family Information	Between two and three standard deviations above the mean (130-144)
Father: Steve Occupation: Banker	Three or more standard deviations above the mean (145-above) 4
Yes X No Occupation: Teacher	If a score is unavailable, an individualized IQ test, such as the WISC-III, Binet IV, or W-J Cognitive Ability Scale, should be administered and the results incorporated into this decision-making process about acceleration. (If the
Does parent live with child? Yes X. No Sometimes	score is below 115, see Section II, Critical Ilems,)
Names of Siblings Gender Age School Grade Name of School Ken Male 8 Junior High	Comments or concerns: Verbal Score in Superior Range, Performance Score in High Average to Above Average Range. This is NOT a concern.
Part C: Child Study Team Information	Part B: Achievement Test Results
Names/Position of Individuals Participating in Acceleration/Decision/Planning: Principal Mrs. 5. Parent (Guardian) Steve & Gindi	Grade level achievement test administered within the last year:
Mrs. P	titution of time month facilitation
d Ed. Coordinator, School Counseld	Flease indicate the type of text used: Individual of oup
	Above-grade level achievement test administered within the last year (if available):
- sectors of the town accountion scale (1A3) have been reprinted with permission of tarear potential trees (ormerly Gifted Psychology Press). This publication, or parts thereof, may not be reproduced in any form without written permission of	
Great Potential Press.	Please indicate the type of test used: Individual Group _X_

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Please circle one number in each category for #1 (i.e., grade level test results). Then circle one number in each category for #2 (i.e., above-grade level test results), or circle the option given for #3 if above-grade level test rest results are not available.

Other

		ulary	Reading	Math	vocato- totat jotat totat ulary Reading Math Language	Studies	Science	Science Concepts)
	 On a grade level test, the student: Performed at < 90th Percentile: Performed at > 90th Percentile 	00	00	0©	0	©~	6000	00
1000	On an above-grade level test, the student: Performed at < 90th Percentile: Performed at ≥ 90th Percentile:	0.6	0 2	0 11	0.0	0	5 0	0 6
-	Above-grude level test results not available	,	à	ä	<u>:4</u>) #	i.

Comments or concerns: Language Total from Grade 1 not available for Grade 2

Add all of the numbers circled from Part A and Part B to calculate the Academic Ability and Achievement (AAA) Subtotal: 12

If this (AAA) subtotal score is < 10, whole-grade acceleration is *not recommended*. If the score is ≥ 10 , continue on to the next section of this form,

Socian VII: School and Acadamic Fact

Please circle the number to the right of the statement that best describes the student.	
	Please circle one
Acceleration would result in a change in building at the beginning of the first semester of the academic year (e.g., elementary to junior high). In this case, a plan for transition is needed.	0
Acceleration would require the student to attend some classes in another building.	-
Early entrance would be to kindergarten.	e.
Early entrance would be to first grade.	7
Comments or concerns: Acceleration would mean a change in building.	

(The following items have been omitted from Figure 10.2: items 2–7 from Sections VII: School and Academic Factors; Section VIII: Developmental Factors; Section IX: Interpersonal Skills; and items 16–18 of Section X: Attitude and Support.)

Section X: Attitude and Support

19. Planning for Acceleration Prior to Completing the IAS Form

	Please circle one
No prior planning or gathering of information has taken place or been shared	
regarding this student's acceleration	0
Limited staffing, information sharing, and planning have occurred regarding	
this student's acceleration	e
Extensive staffing, planning, and discussion have occurred regarding this)
student's acceleration	~
Comments or concerns:	

Section X1: Scale Subtotals, IAS Grand Total and Catalater

Section X1: Scale Subtotals, IAS Grand Total, and Guidelines	VS Grand Total , and	Guidelines
Is the Academic Ability and Achievement (AAA) Subtotal Score 200 If AAA Subtotal is <10, do not consider whole-grade acceleration.	Achievement (AAA) i o not consider whole-	Is the Academic Ability and Achievement (AAA) Subtotal Score 2000 Yes X. No
Academic Ability and Achievement Subtotal	vement Subtotal	12 of a possible 32 points
School and Academic Factors Subtotal	s Subtotal	15 of a possible 22 points
Developmental Factors Subtotal	otal	6 of a possible 9 points
Interpersonal Skills Subtotal		14 of a possible 16 points
Attitude and Support Subtotal	1	8 of a possible 11 points
Add the above five scale subtotals together to equal the IAS Grand Total:	totals together to equa	I the IAS Grand Total:
lowa Acceleration Scale Grand Total 55 of a possible 90 points	nd Total 55 of a possil	ole 90 points
Guideline for Interpreting the lowa Acceleration Scale Grand Total:	e lown Acceleration Si	cale Grand Total:
70 to 90 total points	Student is an exer is recommended.	Student is an excellent candidate for whole-grade acceleration. Acceleration is recommended.
54 to 69 total points	Student is a good ommended.	Student is a good candidate for whole-grade acceleration. Acceleration is recommended.
43 to 53 total points	Student is a mary clear recommend ternatives.	Student is a marginal candidate for whole-grade acceleration. There is no clear recommendation. Review materials closely and carefully consider al- ternatives.

Whole-grade acceleration is not recommended. Consider single-subject ac-

42 or fewer total points

celeration, mentoring, enrichment, or other alternatives.

Analysis of Team Decision and Outcome	Jonny expressed her desire to be skipped into a higher	The Twice-Exceptional Student
Jenny: Current Grade: 3rd Grade, with acceleration in Reading and Language Arts Proposed Grade for Acceleration: 5th Grade	grade: Her motivation and advanced language skills are apparent in this poignant letter. The absence of above-level testing information should be noted. When Jerny's case was presented, the availability of	The twice-exceptional student is excep- least two ways: (a) Giftedness is one o tionalities, and (b) one or more disabilitie and a subtoseral lenonion author envolved
AND SECTION ADDITION TO A DESCRIPTION OF A	above-tevel testing through elementary tatent searches was relatively limited, and Jenny's school searches was relatively limited.	represents the second exceptionality. Co terms gifted and learning disubled may s
and this was indicated in Section VII, Item 1, Grade Placement Under Consideration. Jermy carried a zero on this item, because acceleration at this point in time would result in a mid-year change in buildings—she would be	astrict was not participating at that time. Nonetheless, the team's ultimate decision was that she be accelerated. ²	a conflict to some: especially to those w adhere to Terman's (1925) conclusion
moved from the elementary school to the junior high school. Because the acceleration is still recommended, how- ever, a plan needs to be in place so that Jenny can make the necessary adjustments in the new environment. This		remain's work was important receiuse it myth of the sickly, socially awkward chi hossed as to the afford child as an individ
	When Is an Assessment Important for a Gifted Student?	perior intelligence, in good health, and y adjusted, these some conclusions masked
here progress. At the beginning of the trial period, Jenny was treated much like a transfer student and was given	Identification and Programming	ness that some gifted children also hildren also hildren also hi
special consideration regarding the crange in ner routine. In to time, mough, ner mother reported that Jenny had adupted to the new setting like "a fish to water" A critical factor to the success of this intervention was the re-	The National Association for Gifted Children (1998)	needed to be addressed.
ceiving teacher's willingness and openness to having Jenny in her class. This set the tone for the rest of the class. Additionally, the receiving teacher was involved in the planning phase of the acceleration process, which eased	Pre-KGrade 12 Officed Program Standards includes five guiding principles, two of which are relevant to a	Since the 1975 pussage of PL 94-142 creased public awareness regarding the
some of Jenny's anxieties. It was clear from the beginning of the process that Jenny knew what she wanted and was willing to work with the teachers to assure that she was in a challenging setting.	discussion about assessment, Principle 5 states that, "A student assessment profile of individual strengths	has grown to recognize that many st
Perrov were vertisefied with her schood are even even in the revealed of the revealed events of the revealed even	and needs must be developed to plan appropriate in- tervention." Exemplary standards for this principle	disabilities are also gifted, and vice very prehensive discussions on students wh
termy was very satisfied with the second experience as a result of the acceleration. She was appropriately chai lenged, and her enthusiasm for school remained undiminished throughout high school and into college. All indi- cators continue to confirm that the acceleration was a successful educational intervention.	state that "Individual assessment plans should be de- veloped for all gifted learners who need gifted educu-	and learning disabled, see Brody and I and Coben and Vaughn (1994). Kau
Jenny's Letter to the Principal	tion. An assessment profile should reflect the gifted learner's interests, learning style, and educational	Castellanos (2001) provide an exceller the gifted student with ADHD, and Ne
Deer Mrs. S	needs. Principle 4 states that, "All student identificat- tion procedures and instruments must be based on	posits that gifted children with Aspedrome are under-identified because some
	current theory and research." The exemplary stan-	haviors are incorrectly attributed to lear
I find that the work I in being given Is very discouraging because its much to easy. Most of it I know so I do the work curch on and I have to wait for the others to curch on.	unus for fills operation include: student assessment data should corne from multiple sources and include multiple assessment methods Student assess	for most students who are twice-exe for most students who are twice-exe 10 test is a critical first sten to discoveri
the grane t a take to go to best votata or contege our since t can t cougt thave something more challenging. Say for Instance Leoud go to any Grane I want as long as Long as	ment data should represent an appropriate balance of reliable and valid quantitative and qualitative mea-	edness, but the analysis of the IQ test pri- beyond the score to look at patterns of s
us in createneous acciments or restatement mante school. I not to the Strate I don't that it would be note to go ther and see what its life. I don't care if I heave Presidential Elementers cause I scotts days how with the reache Increased sectors.	sures." Although these standards are well intentioned.	weaknesses, especially within the con- newer theories of intelligences. ³
friends that I'd miss	they do not provide the typical educator of the gifted with a great deal of guidance about specific steps to	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
Sincerely, Jenuy	take. Educators need to be thoroughly informed be- fore embarking on an assessment. However, only	Which lests are kecommended is Assessment of Giffed Students?
	through an assessment will educators be able to pro- olde students with a curriculum that is based upon the	Assouline and Lupkowski-Shoplik (in pr veloped for educators and parents
considered. As demonstrated in the suriple cuse (see clementary and middle school students, above-level Figure 10.2), and in addition to the required informate test results are more readily available.) tion from an IO test, the IAS asks for achievement res- tion from an IO test, the IAS asks for achievement res-	learner's needs,	Guidelines for Educational Assessments cludes:
		1. The assessment question guides the se-
testing. A student <i>must</i> have grade-level test results. a whole-grade acceleration decision. "Jenny" is a and although above-grade-level testing is not re- real student who is turrently in her first year of col-	2. In the IAS manual, Jenny's case is reproduced in its miners. Sections of Jenny's case have been remined in	and drives the recommendations. Par-
	Figure 10.2 with permission of the publisher, Great Potential	3. See Chapter 7 by Sternberg and Cha

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cceptional in at the of the excep-littles, for exam-tional disability. Combining the ay seem to pose who may still sions. Although e it dispelled the child and intro-lividual with su-nd socially well sked our aware-o had physical, prioantities that

versa. For com-who are gifted nd Mills (1997) Kaufmann and ellent review of Asperger's Syn-ome of their be-learning disabil-142, there is in-the chiracteris-fublic awareness Neihuri (2000) students with

exceptional, an vering their gift-t profile must go of strengths and context of the

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n press) have de-nts "Consumer nents," which in-

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- urvolved in formulating the inseesment question.
 2. Know what types of tests are appropriate and tasful for obtaining the needed information. A general abili-
- ity test can be helpful in predicting success in school, but wor't give enough specific information about a child's specific aptitude. for example, mathematics, to determine placement in a multiennific class or programming within that class.
- This appropriate training. A reacher who is familiar has appropriate training. A reacher who is familiar with the directions can administer some tests. Other tests require extensive training, and the person administering them usually has an advanced degree.
- 4. Test results should be reported in written form. This report should include the actual test scores, which should be presented within an educational context. A test score, by itself, is of little value.
 - Verify that the report will include several specific recommendations individualized to the child who was tested. A photocopied list of pre-published educational practices is not acceptable.
 - Reports should be completed and sent in a timely fashion, that is, within one month after the assessment has been completed. Parents should be notified of any delays.
- Parents should know whether a test will be adminstered as a group or individually. If the test is individually administered, parents should know in advance whether the test is designed for electronic response, paper and pencil response, or whether the student will respond ornily.
- Cost may be an issue for some parents. At one end of the cost-continuum, testing might be done through the school district at no cost to parents. At the other end of the cost-continuum, parents might pay several hundred dollars, especially for a thorough assessment that includes an individualized unelligence

SUMMARY AND CONCLUSIONS

This chapter highlighted the brief history of resting and its role in the educational lives of gifted children. Much of the chapter was a defense of resting as the primary way in which psychologists and educators obtain the information necessary for placement and programming. Although the general public, as well as some educational practice, there is strong evidence that testing should continue to be an integral part of the education of all students, and gifted students in particular. The two case studies demonstrated the importance of a professional interpretation of the results from testing to the educational decision-maktesting from testing to the reductional decision-makning process.

QUESTIONS FOR THOUGHT AND DISCUSSION

 What can an individualized intelligence test tell you about a student? How important is the verse from an IQ test to the understanding of a student's learning needs? According to Assouline, testing is one of four components of an assessment. Why was testing described as the most important component? How do the other three components fit into an assessment?

3. Intugline that a school board member wants to etiminate testing from the glifted education program to save money. The person heleves that testing should be replaced with "portfolio assessment." List five to seven points from this eliquer that would be your response to this board member's reconnectuation.

 Think of an elementary student in your school district who needs accelerated experiences. How would testing fit into curricular planning for that student?

 Some gifted students also have a learning and/or social emotional disability. How can an assessment help educators and parents achieve a better understanding of such a student?

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