



NRC/GT: Developing Expertise Using the “Big Red Notebook”

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How do you like to learn?

1. Read
2. Listen
3. Talk
4. Role Play
5. Write
6. All of the above

Learning is complex at best. We have all been to school; we think we know how we learn best. We may have one or more preferences for learning something new and a different preference for refreshing knowledge and skills that need updating. We also recognize that learning occurs in school, home, and community environments, as well as the world at large. As individuals, we have considerable expertise in transferring knowledge and skills from familiar to unfamiliar situations. Practice, reflection, feedback, and redesign serve as critical components of these learning approaches. However, we cannot guarantee that our personal preferences for learning are a match to that of our colleagues or to one or more students in our classrooms. We can increase the likelihood that learning preferences are appropriate for individuals by designing multiple ways to meet the same objectives. This was the goal in designing and developing a multi-phase study of professional development practices and in creating a professional development module as an intervention tool to develop expertise in using the pedagogy of gifted education in general education classrooms.

The research team at the University of Connecticut (Westberg, Gubbins, Burns, & Reis, 1995) thought about learning and teaching preferences and posed the following question:

How do we provide professional development to teachers throughout the country by creating training materials for others to use within their own school districts?

We created an intervention with the ultimate goal of making it available to others interested in using a set of strategies that represent some of the pedagogical principles of gifted education that will offer challenging learning opportunities for all students. We studied various gifted and talented models and systems of designing and developing teaching and learning models and curricular approaches. We reviewed recommended practices in general education and thought about how

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we could make them more appropriate for gifted students whose academic needs surpass those of their peers in one or more content areas. After much discussion and debate among our research team, we concluded that we wanted to accomplish the following in a professional development module to be used by educators:

1. Provide an overview of conceptions of intelligence or giftedness.
2. Create an analytical approach to studying, critiquing, and modifying available curricula.
3. Develop a variety of assessment techniques to serve as informal and formal ways of determining students' prior knowledge.
4. Determine students' learning strengths by creating profiles of abilities, interests, and talents.
5. Design high-end learning opportunities for students by matching academic needs to curricular and instructional options.
6. Offer enrichment opportunities for students to engage in developing solutions to real-world problems that require long-term involvement to impact the pre-selected audience.

Our goals were lofty; however, we knew that our combined professional experiences would be an asset. Our prior teaching emphasized the following:

- overarching concepts, big ideas, or themes;
- learning how to learn skills, including research skills, critical and creative thinking skills, and communication skills;
- student generated problem-based learning opportunities, which require an analysis of issues, problems, or concerns that engage the attention of an individual or a small group of students;
- preference for students thinking and working like practicing professionals; and
- focus on the continued growth of self-esteem and self-concept.

We also recognized the difference between schooling and education so well stated by Brandwein and Morholt (1986): "The gifted young . . . experience both *schooling* (intended learning moderated by the community) and *education* (unplanned learning often

at individual risk)" (p. 23). We wanted all students in general education classrooms to experience schooling and education. We understood that not all students would experience the same thing, in the same way, and at the same time. In designing a professional development module, we wanted to ensure the following:

1. Challenging curricula were available.
2. Curricular options were in response to learning needs.
3. Students' research interests guided extensions of curricula.
4. The learning/teaching dynamic was central to teacher and student change.

Next, we had to figure out how to accomplish all of these goals. As professional developers and teachers ourselves, we often shared information through lectures, small and large group discussions, simulations, videos, slides, and transparencies highlighting main points, examples, and definitions. Conference attendees, workshop participants, and students had opportunities to read, listen, talk, role play, and write. Given our experiences, we approached the idea of creating a professional development module the same way we would normally design training materials. We wanted to ensure that the module provided sufficient details for educators who were novices in their understanding and experience with gifted and talented education. We also wanted experts to recognize how they could make modifications or extensions of the materials to suit their high level of familiarity with curriculum development based on learners' needs and the education of gifted and talented students. The steps in this process of creating, refining, piloting, and implementing the final version of the professional development module are fully explained in Gubbins et al., (2002).

Upon completion of the research study of *Maximizing the Effects of Professional Development Practices to Extend Gifted Education Pedagogy to Regular Education Program*, we, once again, reviewed and revised the intervention materials. The intervention became known as the "big red notebook" because of its packaging. Within a 4 in., 3-ring, red notebook, there is a brief history of various viewpoints on intelligence and giftedness; guidelines for assessing the quality, relevance, and comprehensiveness of current curricula; approaches

to altering the depth and breadth of curriculum; techniques for creating learner profiles with the ultimate goal of improved achievement; and detailed suggestions and prototypes for designing enrichment learning and teaching opportunities beyond what is available in classrooms.

Applying Gifted Education Pedagogy in the General Education Classroom (Burns et al., 2002) or the “big red notebook” is now available to the public. The five goals of this professional development module include:

1. Explore a developmental conception of giftedness; discuss your personal perspective.
2. Identify relevant gifted education services for the general education classroom.
3. Review the components of an exemplary lesson or curriculum unit. Use curriculum development or remodeling strategies to analyze and improve a traditional lesson to increase challenge, authenticity, and active learning.
4. Identify student differences and use strategies to accommodate various learning levels of prior knowledge, interests, motivation, communication preferences, cognitive skills, and learning styles.
5. Provide enrichment activities and options to extend various curriculum units and address talent development, intrinsic motivation, and self-directed learning. (Burns et al., 2002, p. 2)

Individuals or groups interested in a professional development experience that is carefully articulated will find that the “big red notebook” promotes the notion that districts can develop expertise in gifted and talented education by using this module with staff members. One or more teachers can set a goal of becoming the district’s or school’s professional developer in applying gifted education pedagogy to all students. The professional development module consists of background information for the presenter, an overview of the mission of The National Research Center on the Gifted and Talented, and a preface that explains why the “big red notebook” will be a useful resource in response to questions such as:

1. How do we meet the needs of gifted and talented students who spend the majority of their time in general education classrooms?
2. How do we nurture the talents and abilities of all students?
3. How will strategies and practices designed to modify, differentiate, and enrich curricula escalate the challenge level for all students?

These questions are addressed through the use of 89 transparencies, presenter notes, suggested explanations for the content of each transparency, activities for audience involvement, activity pages to practice and reinforce the application of strategies and skills, and selected resources. The “big red notebook” is a self-contained learning opportunity that promotes comprehensive gifted education programs that offer:

- Services for students who already possess strong cognitive and academic abilities.
- Services to promote the development of strengths, cognitive abilities, intrinsic motivation, effort, talents, and optimal learning for all students.
- Services that address social, emotional, and career-based concerns and issues.
- Services in the classroom, special programs, and in the community. (Burns et al., 2002, p. 10)

An example of the transparency content and script illustrates how we described “Indicators of Differentiation” (see next page).

Developing and implementing research in schools requires commitment, resources, and a willingness to support growth and change. Our theory-based research study of *Maximizing the Effects of Professional Development Practices to Extend Gifted Education Pedagogy to Regular Education Program* allowed schools time to experiment with strategies designed to improve learning opportunities for teachers and their students. Participating districts that served as The National Research Center on the Gifted and Talented (NRC/GT) research sites followed carefully outlined research protocols during the pilot phase of the classroom intervention and the longitudinal research study of modifying, differentiating, and enriching curricula. Experiences of administrators, teachers, and students definitely

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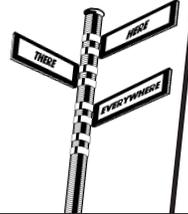
improved the 2002 version of the “big red notebook.” We extend our gratitude to each and every person involved in this study; this was truly a collaborative effort to test, refine, and adapt research-based practices in elementary and middle school classrooms. Through the use of the 2002 “BIG RED NOTEBOOK” or *Applying Gifted Education Pedagogy in the General Education Classroom: Professional Development Module* (Burns et al.) interested educators will have opportunities to read, listen, talk, role play, and write as they develop local expertise in using the pedagogy of gifted education in general education classrooms and providing students opportunities to experience “schooling and education.”

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Indicators of Differentiation

1. Consistent use of pretesting
2. Decrease in the frequency of large group activities
3. Increase in:
 - a) Small group teaching activities
 - b) Flexible small group learning activities
4. Increase in individual alternatives:
 - a) Centers
 - b) Homework
 - c) Contracts



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Indicators of Differentiation

Paraphrase This Information for the Participants:

- For the purposes of this presentation, we are making a distinction between differentiation and interest-based enrichment. Differentiation involves teacher-generated changes to improve the match between the regular curriculum and the needs of individual learners. Interest-based enrichment supplants the regular curriculum by offering students the opportunity to engage in interest-based activities related to their talent areas or to the curriculum.
- Unlike the individualization practices prevalent in the 1970s, we are not suggesting that teachers abandon all large group teaching and learning activities. Instead, the increased use of differentiation strategies should alter the percentage of time in which students are engaged in various large group, small group, or individual learning activities.
- Current research suggests that 90% of the activities in the “average” classroom involve large groups of students. In a classroom where the teacher regularly practices differentiation strategies, we would expect: (a) frequent use of pretesting for the expressed purpose of identifying potential differences among students, (b) a decrease, but not an elimination of, large group teaching activities, (c) large group activities to introduce or culminate a unit, or when no apparent differences influence student learning, and (d) an increase in small group teaching and an increase in small group learning activities. In addition, each teaching or learning group would be conducting different activities, for the expressed purpose of increasing student achievement.
- If students rotate between teaching and learning groups, and there are three such groups to handle the differences among the students, a third activity is necessary to implement this rotation. Many teachers find that the use of centers, homework, or contracts not only fulfills this need for a third rotation activity, these activities also encourage student independence and self-directed learning.

Suggested Activities to Promote Audience Participation:

- Ask participants to discuss the following: the prevalence of differentiation activities in their school; the frequency with which they use various differentiation strategies; the indicators on this transparency that are of greatest interest to them; and how the use of small groups, expressly for the purpose of differentiation, might differ from the use of small groups used with cooperative learning strategies.

Awards and Honors

Dr. Elena Grigorenko, Deputy Director of the PACE Center at Yale University, was the recipient of the APA Division of Development Psychology Boyd McCandless Early Career Award. This award is Dr. Grigorenko's third divisional early career award from the APA.



Counseling Gifted and Talented Students

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Introduction

I began my work in gifted education with a focus on counseling needs in 1973 at the University of Wisconsin-Madison shortly after the Marland Report (1972), which brought gifted students to the consciousness of the nation. At that time, counseling and the focus on social-emotional needs was a rarity. Almost all attention was focused on identification issues and academic programming issues. As the years have passed, identification and academic programming have maintained their importance, and at times were overshadowed by issues such as teacher training, gender, ethnicity, inclusion, genetics vs. environment, and IQ vs. multiple forms of intelligences. Throughout these years of musical chairs regarding the in issue, the social-emotional needs of gifted has continued to be a solid, expanding concern, but never the star.

In 1973 you could count on one finger all the leaders in gifted education who made counseling issues their primary focus. In 2002 there is considerably more respect and attention for the social-emotional issues regarding gifted children (i.e., attention to counseling needs) than previously. A good example of today's attention on social-emotional issues is the publication of the NAGC book by Neihart, Reis, Robinson, and Moon (2002) titled *The Social and Emotional Development of Gifted Children: What Do We Know?*

My research throughout the years has focused on several areas, but I have remained connected to counseling issues and social-emotional development. A brief summary follows, highlighting my research as well as my clinical insights based on years of working in counseling situations with students, parents, and educators.

Insights/Perspectives

A defining characteristic of counselors is their use of the qualifiers “seems” and “appears.” For example, “It seems that Lisa is angry.” “It appears that David is underachieving as a way to get attention.” A counselor recognizes that an individual is complex

and a composite of apparent paradoxes and thus does not want to make definitive statements that can be challenged. Gifted students, if nothing else, are complex. However, it does no good to pretend there are certain things we do not know when we do. Currently, we know considerably more about the social-emotional issues confronting gifted students based on research and clinical observation. To know something in the scientific sense does not mean it is an absolute or that it holds in a particular way in all circumstances. If this became a standard, we would know nothing. Scientific knowledge is an understanding of patterns and dispositions with the recognition that there are exceptions to all that we know about human behavior and development. As our research improves, exceptions become just that, rather than indices of the absence of a knowledge base. The following insights are based on a synthesis of research as well as my own observations/work over the past nearly three decades.

- Gifted students are typically as well adjusted as other peers.
- Social-emotional issues are present because of exceptional ability.
- In our society it is not smart to be smart.
- Meeting the cognitive needs of gifted students often meets simultaneously their social-emotional needs.
- Teenage years are the most difficult socially for gifted students.
- To be a gifted minority student is an added social challenge for these students.
- Intelligence is no assurance of character.
- Gifted students are not prone to suicide in any greater numbers than other students in their age group.
- Depression, anxiety, and isolation are among the common difficulties with gifted students.
- Gifted students do not have lower or more inflated self-concepts than nongifted age peers.
- Gifted students are more sensitive to the social needs of their nongifted peers than the reverse.
- The messages that students receive from society about exceptional talent are only ambivalent in regards to intellectual talent.

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- Underachievement in schools by gifted students is a manifestation of a combination of social-psychological tensions.
- Parents do not always know what is best for their gifted children.
- It is possible to be gifted and disabled (or have a disorder) simultaneously.
- Children benefit from counselors as part of their development in schools. Gifted students get less than their share of counselor time and attention.

Self-Concept

The self-concept construct has deep historical roots in psychology and education. Self-concept can be viewed as a “powerful system of cognitive structures that is quite likely to mediate interpretation of and response to events and behaviors directed at or involving the individual” (Nurius, 1986, p. 435).

A number of studies (see Neihart, 1999) have indicated that there are no differences between gifted and nongifted students on measures of self-concept. Self-concept needs to be viewed as multidimensional (Colangelo & Assouline, 1995, 2000) and changes with schooling. Colangelo and Assouline (1995) found that:

- self-concept of gifted students is lower in high school than elementary school
- as gifted students progress in school they become more anxious and isolated
- gifted students have higher self-concepts in academic domains, and lower in interpersonal domains.

Closely related to self-concept is how students view their own giftedness. A study by Kerr, Colangelo, and Gaeth (1988) indicated that giftedness is seen by teenagers as a positive when it came to personal understanding and to performance in academics. However, they saw giftedness as a negative when it came to relations with peers.

Positive self-concept is associated with challenge-seeking, willingness to do hard work, take risks, and accuracy in evaluating one’s performance (Neihart et al., 2002).

At-risk Students

Gifted students are vulnerable to a number of issues and situations that can hamper their cognitive as well as affective development. Gifted students are vulnerable to underachievement, defined as school attainment considerably below ability level (Neihart et al., 2002). The outcome of underachievement is always the same—performance below expectation. However, the reasons and sources for underachievement are varied and complex. They include social isolation, pressure to conform, under-curriculum, family dynamics, rebelliousness, learning/behavioral disabilities, attention-seeking, trauma, deliberate underachievement, and lack of goals and direction (Colangelo, Kerr, Christensen, & Maxey, 1993; Neihart et al., 2002; Peterson & Colangelo, 1996; Reis, 1998; Rimm, 1997).

There is concern about suicide and delinquency among gifted. The traumatic effects of suicide do not rely on numbers—one suicide is catastrophic. While the numbers of suicide among gifted are in no greater number than for other students (Neihart et al., 2002), counselors need to recognize signs and actively intervene for any student who appears at risk. Gifted students who are isolated, anxious, depressed, can be at risk for suicide. A cry for help must be heeded (Gust-Brey & Cross, 1999).

The research on delinquency among gifted students, like that on suicide, suggests no higher incidence than among other youngsters. Psychological problems can manifest themselves into anti-social and illegal behavior. Especially in the teenage environment, acceptance trumps reason and safety. There is some information based on self-reports by gifted students that they commit offenses, but are seldom caught or taken to court (Neihart et al., 2002; Seeley, 1984).

The research on minority students has been rather consistent indicating that minorities (except for Asian-Americans) are underrepresented in gifted programs. African-Americans, Latinos, and Native-Americans are well aware of their minority presence in gifted programs and are conflicted about their participation in such programs. A most unfortunate phenomenon afflicts minority students and that is the association of academic excellence (e.g., gifted program) with “acting White” (Colangelo, 2001; McWorther, 2000). Gifted minority students deal with all the issues that other gifted students deal with and additionally, the ethnic issues of whether they

belong in such programs and how they will be viewed by their ethnic group if they participate. We are missing highly capable minority students because they are conflicted about wanting to be found or identified.

Family Counseling

The family has been recognized as a primary and critical component in the development of talent (Bloom, 1985; Moon & Hall, 1998; Moon, Jurich, & Feldhusen 1998). Although research and writings have increased in the last 20 years (Colangelo & Assouline, 1995; Moon & Hall, 1998; Moon, Jurich, & Feldhusen, 1998), counseling with families of gifted is still an area of exceptional need and challenge. High ability students tend to come from families that are cohesive, child-centered, authoritative, and in which parents engage with their children (Neihart et al., 2002). By no mean does this mean that gifted children do not emanate from families that do not fit those descriptors (Colangelo & Assouline, 1995; Moon & Hall, 1998).

One of the important roles that parents assume is a relationship with their child's school. Parents of gifted children do not always have the skills to advocate effectively for their children, nor the interpersonal skills to work well with school personnel. Parents are not always prepared to take on the challenge of a child who has different needs.

The identification of one child in a family as gifted changes the dynamics with other siblings who are not identified. Research has indicated that labeling a child gifted can have negative effects on siblings (Colangelo & Brower, 1987; Cornell & Grossberg, 1986; Grenier, 1985).

Transition From High School to College and Career Counseling

Gifted students do not always know what they want to do for the rest of their lives and intelligence does not necessarily translate into planning skills for college and career. Many gifted students will experience difficulty at this stage because of multipotentiality (Rysiew, Shore, & Carson, 1994). Rysiew, Shore, and Leeb (1998) outline some of the main concerns in addressing mulitpotentiality:

1. Students find it hard to narrow their choices to one career since they have so many equally viable options.

2. Multipotential students may also suffer from perfectionism, thus they look for the perfect or ideal career.
3. Students feel coerced from parents and others to make decisions based on status and high earning potential.
4. Students must make commitments that may have long-term schooling (graduate, professional) and a delay of independence in terms of earning a salary as well as starting families. These long-term training investments are also emotionally perhaps, or financially difficult to change once a student has embarked for several years towards a particular career, even if there are serious doubts about the chosen career path.

A review of research and writings on career development of gifted students recommends the following for counselors (see Rysiew, Shore, & Leeb, 1998):

1. Remind students that they do not have to limit themselves to one career.
2. Use leisure activities as a way to continually develop areas of abilities and interest, apart from one's career.
3. Use career counseling as a value-based activity, exploring broad categories of life satisfaction.
4. Emphasize peer discussions and group work with other multipotential youth so that one can see that he/she is not alone with concerns.

Some gifted students have very focused career interests at an early age while others do not develop them until late high school or start of college. Research does not indicate an advantage to either. Career counseling should emphasize rigorous academic preparation and high aspirations (Neihart et al., 2002) since that will keep options open. Gifted students will eventually find their passion or niche—keeping options open is important. Research has indicated that females and minorities of high ability do not always have aspirations and career goals that are high and consistent with their abilities (Kerr, 1991; Neihart et al., 2002).

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Counseling in Schools

While there are counselors and therapists in private practice or working in community outreach centers, no counselor will be in as much contact with gifted students as the school counselor. School is still the place where giftedness (for the most part) will either flourish or not. School counselors receive little specific training on the affective needs of gifted students and it is the very rare counselor training program that requires counselors to take a course on gifted students as a degree requirement. Thus school counselors are grounded in counseling but not in theories of giftedness.

Counseling in schools can be envisioned as either remedial or developmental. In remedial counseling, the emphasis is on problem solving and crisis intervention. With this approach the counselor is a therapist who helps correct problems. In developmental counseling, the counselor also has a therapist role, but the primary function is to establish an environment in school that is conducive to the educational (cognitive and affective) growth of gifted students.

Final Comments

Counseling gifted students and their families is one of the most challenging and rewarding functions for a counselor. Gifted students have tremendous variability not only in their cognitive capacity, but in their affective development. While there are clearly common themes to the social-emotional issues confronting gifted students, there are profound individual differences among gifted students. The business of school counselors is to help young people recognize who they are, make decisions, and develop their potential. Gifted students need the assistance and nurturing counselors can provide. It will be a sign of effective schooling when counselors regularly use their skills and expertise with gifted and talented students in their schools.

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Future Monographs from NRC/GT

www.gifted.uconn.edu/resource.html

Development of Differentiated Performance Assessment Tasks for Middle School Classrooms (Moon, T. R., Callahan, C. M., Brighton, C. M., & Tomlinson, C. A.)

Society's Role in Educating Gifted Students: The Role of Public Policy (Gallagher, J. J.)

Middle School Classrooms: Teachers' Reported Practices and Student Perceptions (Moon, T. R., Callahan, C. M., Tomlinson, C. A., & Miller, E. M.)

Assessing and Advocating for Gifted Students: Perspectives for School and Clinical Psychologists (Robinson, N. M.)

Giftedness and High School Dropouts: Personal, Family, and School Related Factors (Renzulli, J. S., & Park, S.)

Assessing Creativity: A Guide for Educators (Treffinger, D. J., Young, G. C., Selby, E. C., & Shepardson, C.)

Applying Gifted Education Pedagogy in the General Education Classroom: Professional Development Module (Burns, D. E., Gubbins, E. J., Reis, S. M., & others)

Challenging Schools' Expectations of Native American Students

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The under-representation of Native American students in urban public school programs for the gifted and talented is alarming. Recent research continues to document the wide disparity between the ethnic group representation of Native Americans in the general public school student population and the significantly lower percentages represented in programs for the gifted and talented. This is true at the national, state, district, and individual school levels (Bussanich, Gustafson, Jones, & Raborn, 1997).

Rationale

Why should educators care about the under-identification and placement of Native American students in public school programs for the gifted and talented? According to Tomlinson, Callahan, and Lelli (1997), "minority students, particularly those from low-income backgrounds, are typically underrepresented in programs for the gifted" (p. 5). It is important for educators to challenge the apparent perception that talent does not exist at the same level for mainstream and culturally diverse learners. One way that this might be accomplished is through the expansion of opportunities for economically disadvantaged and minority children with exceptional talent through participation in programs with advanced learning experiences. To encourage this, the U.S. Department of Education report, *National Excellence: A Case for Developing America's Talent* (1993), proposed that schools support research and demonstration projects for working with children in diverse populations and eliminate barriers to the participation of children from culturally diverse groups in services for the gifted and talented.

The Solution

During the 1993-1994 school year, a program was designed at a large urban elementary school to address the needs of Native American and already identified gifted students. The program was open to

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all current gifted students and Native American third, fourth, and fifth grade students. Based partly upon Renzulli's Enrichment Cluster concept (Renzulli, 1994; Renzulli & Reis, 1985), the program met after school and for half days for 3 to 6 week sessions during the summer. Participants attended on a voluntary basis. General program goals were developed to teach and expose the student participants to learning experiences in the areas of science and technology, mathematics, career exploration, cultural pride and identity, and leadership and social skills development. It was hoped that such a program would also serve as a catalyst to increase the numbers of Native American students referred, tested, qualified, and placed in the school's gifted education program. Finally, the program sought to instill an enthusiasm in the students for learning while also increasing the participation of their families in the school community.

Program Design

After school activities were presented in a thematic fashion. Students would sign-in and gather for a large group opening activity designed to promote a sense of community through team-building. This would be followed by a longer subject-based skill-building activity (either math, science, or culturally focused). Snacks and a recreational period were followed by a closing activity and debriefing session. Central topics or themes were also selected for each of the summer sessions. "Our Dreams," the theme chosen for one summer session, for example, provided group activities in the interpretation of dreams from the "western" and Native American point-of-view. It was lead by a Native American female psychologist with a personal and professional interest in dream research. In addition to keeping a daily personal dream journal, students discussed topics such as what constitutes a dream, why dreams are important, and how dreams are viewed in both Western and Native American culture. The students concluded the unit by creating and making their own dream-catchers. Additional units on creative writing involving poetry and other forms of written and visual expression, storytelling, and the creation of personalized Apache pouches, were also offered during that summer session.

A final and significant component of the program focused on family participation. Families were

always invited and encouraged to attend and participate in all program activities. A special event, called Family Night, was held every semester. During this evening, a large potluck dinner was provided followed by an engaging activity. Some of the activities presented included "The Magic of Science," "How Your Student Can Succeed at School," and "Native American Drumming."

Program Participants

Native American students comprised 11.8% of the school's general student population and 0% of the school's gifted education program population. As a group, Native American students were not experiencing overall academic success at the school. A very large number were placed in remedial and special education programs. Few participated in extracurricular activities. The enrichment program coordinators believed that the Native American students had more than enough ability to be successful. The school just needed to provide an appropriate opportunity for them to succeed.

Sixteen students participated in the school's gifted education program. The program's ethnic breakdown included a majority of Anglo students (13), three Hispanic students, and no Native American students. The school's general student population breakdown by ethnicity included: Anglo 40.0%, Hispanic 39.5%, Native American 11.8%, Black 5.8%, Asian 1.4%, and Other 1.7%. Many of the gifted students were not as successful socially as they were academically. A number of them were working on their Individual Education Plan goals related to improving social and leadership skills. The enrichment program coordinators believed that the gifted students could learn to work more cooperatively, increase appropriate social skills, and become more tolerant of differences in others with increased interactions with the Native American students.

Finally, it was realized that each individual had much to offer and to share with one another. It was believed that if a program were to provide an atmosphere whereby these "gifts" could be shared, the students would continue not only to build upon their strengths, but could also develop new skills.

Results

Data were collected over a 6 year period beginning in 1993. Information on the overall effectiveness of the

program was obtained from school and district reports, student participation surveys, parent/guardian surveys, program coordinator surveys, report cards, program attendance records, student observations, and program awards and recognition. The results indicate that a total of 27 Native American students were referred for and received gifted education testing. Nineteen of these students were identified and placed in the school's gifted education program. The general Native American student population for the 6 years studied ranged from 11% to 16%, while the percentage of gifted program Native American participants during that same period ranged from 20% to 35%. It is important to note that none of these students were referred by program coordinators for gifted screening. Referrals were made either by the general classroom teacher, parents, or both.

Data collected and analyzed from a variety of sources indicated that students who participated in the program experienced a positive increase in the areas of leadership and social-emotional growth and development. Every respondent (i.e., student, parent/guardian, and coordinator) indicated on yearly surveys that the program was overwhelmingly successful and should be continued. Program attendance records kept on a week-by-week and year-by-year basis indicated that participants attended at a rate of over 90%. The mobility rate for program participants was approximately 10% compared to that of 59.0% (Albuquerque Public Schools, 1999) for the general school population. Participants were also most likely to remain at the school and in the program until they graduated to middle school. The program received numerous awards and recognition, including the 1997 New Mexico Quality in Education Award given to the most outstanding elementary education program in the state.

Conclusion

By creating an enrichment program that maximized opportunities for success for each and every student, the program transcended expectations: expectations by the students themselves, by their parents and families, and by the school community as a whole. The bar was raised. In doing so, the program elevated not only how these students felt about themselves, but also about how the school felt about them. The program highlights the need for all Native American students to be challenged with high level thinking activities and underscores the importance of providing a community style environment for their

academic success. The significance of this statement cannot be overstated. As Native American families make the transition from reservation life to city life, the loss of sense of community is frequently cited as one of their most difficult adjustments required of them. The program also sought to emphasize the inner strength of each Native American student and to support each student in the outward expression of his/her personality.

The non-Native American identified gifted students have also benefited from their participation in the program. As a group, many of these students tended to be highly verbal and independent. A number of them exhibited the need to learn to work cooperatively with others. Several of them experienced a tremendous amount of growth in their leadership and social-emotional skills and abilities. Their participation in the program allowed them opportunities to both share and receive "gifts" from their Native American peers. Most of them displayed a newfound respect for the Native American culture. This carried over outside the program into the classroom and onto the playground as well.

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Assessing and Advocating for Gifted Students: Perspectives for School and Clinical Psychologists

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Introduction

Gifted children are an ill-served group of special-needs students. Few psychologists have had training in addressing their needs, and even those who are trained usually must turn most of their attention to students with disabilities and/or mental health concerns. As a result, gifted children are often subjected to a critical mismatch with their educational environments, with multiple consequences for their learning and attainment, their motivation, and their personal adjustment. This article summarizes research about the assessment of academically gifted students in the context of the author's clinical experience and addresses the kinds of advocacy a psychologist can offer (see Robinson, 2002 for complete research monograph).

Definition and Levels of Giftedness

In comparison with other diagnostic categories, there exists no clear definition of giftedness. Indeed, the group is highly diverse in the domains and levels of their abilities as well as their personal characteristics. Although there is no firm agreement on a definition, nor about the meanings attached to *gifts* and *talents*, the most widely accepted definition of *giftedness* stresses performance, or potential for performance, at remarkably high levels of accomplishment, resulting in a need for services not ordinarily provided in the schools (U.S. Department of Education, 1993). States and school districts often adopt somewhat arbitrary operational criteria to designate whom they will serve, and it is those rules that govern the tests and scores that are locally acceptable (in conjunction with other evidence such as portfolios and behavior ratings) and create local *de facto* operational definitions.

Just as no consensus exists with regard to a definition, none exists with regard to terms to be used for levels of giftedness. Leaving aside the terms suggested in test manuals, probably the most frequent terms that applied in this field to *test scores* are “mildly gifted” (115-129), “moderately gifted” (130-144), “highly gifted” (145-159), and “exceptionally gifted” (160+), which relate to standard deviation units on the normal curve. Very high scores are to be expected very infrequently. For example, IQs above 130 are expected in 2/100 students, but IQs above 160, only in 3/100,000.

Characteristics of Gifted Students

If all is going well with a gifted student, one is likely to see tell-tale signs of advancement such as the following:

- Rapid learning, at an earlier age than classmates
- Intellectual passions—intense curiosity and deep interests
- Exceptional reasoning and memory
- Frequent step-skipping in problem-solving and unexpected strategies
- Capacity for reasoning on an abstract level; sometimes rejecting hands-on instruction (or, conversely, preferring visual-spatial to verbal mode)
- Pleasure in posing original, difficult questions
- Ideas that sound “off the wall,” but are the product of divergent thinking
- Advanced sense of humor; making puns that other children do not “get”
- Reaching for excellence; perfectionism that can be asset or liability
- Greater personal maturity than exhibited by classmates
- Concerns like those of older students’
- Mature notions of friendship and disappointment when friends do not reciprocate their yearning for stability, loyalty, and intimacy.

But if the educational setting is under-challenging or if something at home or in peer relationships is going wrong, then you may see:

Externalizing issues such as

- Impatience, irritability, negativity, arrogance
- What appears to be AD/HD, but is merely the result of boredom
- Bossiness; dominance of class discussion

- Hypersensitivity about perceived injustices
- Refusal to do “busy work” or “baby stuff”
- Low tolerance for truly challenging material

Internalizing issues such as

- Underachievement (which may arise from other causes as well)
- Inattention to classroom activities; daydreaming; “sneak reading”
- Somatic problems on school days only; crying and tantrums at home
- Desperate attempts to be “just like everyone else”
- Lack of *joi de vivre* if not outright depression.

Like all other students, gifted students need challenges matched to their pace and level of learning. A differentiated curriculum will benefit all students in a classroom, and includes compacting (assessment of a student’s mastery of material before it is taught, to avoid wasting time on what is already known); classroom practices that employ flexible grouping, tiered assignments, and encouragement of independence; and, for more competent students, substitution of more advanced work, deepening understanding, drawing connections, and applying knowledge to the real world.

As the professional who is likely to have the most comprehensive information about the student and the schools, the psychologist is often in a special position to act as advocate in partnership with parents and teachers.

Educational Options for Gifted Students

It is useful to distinguish between activities that make a *fundamental adjustment* in the student’s regular school day, and those that are *complementary* to it. Distinctions between *accelerative options* (adjusting the pace and level of instruction) and *enrichment options* (extending the curriculum only). A smorgasbord of educational options for gifted students exists, including a variety of home schooling alternatives, in addition to those listed in the Table 1 (see next page).

Situations Calling for the Psychologist’s Involvement

Assessment is never warranted unless it will make a difference in a youngster’s life. In the absence of any referral question, testing simply to obtain a score is always inappropriate. There are, however, a

number of situations in which assessment of a gifted child’s abilities and skills can make a difference:

- Help with parenting
- Educational planning by parents (guiding development at home and school)
- Determining eligibility for a program (the most frequent reason for testing gifted students, although often the test is group-administered)
 - Cognitive testing (ability and achievement)
 - Visual-spatial testing (generally not effective as a selection tool)
 - Creativity as a qualification for services (discouraged as a qualifier)
- Determining needed adjustments in the school curriculum and school placement (including acceleration)
- Assessing “twice exceptional” children with learning disabilities who may achieve on grade level
 - Labeling may bring understanding and services
 - It is often difficult to differentiate between “normal” asynchrony of abilities, and learning disabilities
 - Writing disability is perhaps the most common in gifted students
 - Most gifted children love to read, and those who do not may have subtle problems
 - Whether a student with a learning disability should be offered a special program for gifted students must be decided on a highly individual basis
- Exploring behavioral issues, including arrogant, hard-to-teach students; those with inattention, impulsivity, and/or hyperactivity; those whose performance is declining or chronically low; students succumbing to peer pressure; students with depression; and students with social interaction deficits
- Describing the attainments of exceedingly bright students who are so significantly advanced that their talents are masked in the school setting.

Comprehensive Assessment of Gifted Students

A comprehensive assessment of gifted students goes far beyond testing. Although psychologists working

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Table 1.

A Smorgasbord of Educational Options for Gifted Students.

	<u>Acceleration</u>	<u>Enrichment</u>
<u>Early childhood</u>	Older preschool group (full- or part-day) Early kindergarten entrance	Excursions, activities
<u>Elementary school</u>	Special school for gifted Self-contained class with acceleration In-class compacting/acceleration Grade-skipping Cross-grade grouping (Joplin Plan) Multi-grade classrooms Part-day placement in higher class Cluster grouping with acceleration	Pull-out program In-class extensions Clubs, contests Junior Great Books All-school enrichment groups Summer programs Cluster grouping with enrich.
<u>Secondary school</u>	Special schools for gifted Grade-advanced courses Distance learning classes Math-science high schools International Baccalaureate courses/exams Summer credit courses Advanced Placement courses/exams Dual high-school/college Early college entry	Selective boarding schools Honors courses Usual pre-International Baccalaureate courses Mentorships Foreign exchange year Special-interest clubs Contests Internships
<u>College</u>	Selective colleges/universities Advanced Placement or International Baccalaureate credits Credits earned through dual enrollment Taking exams to earn credit without taking course Graduate courses while undergraduate Co-terminal MA (BA + MA in 4 yrs)	Honors classes Degree with honors Double majors Research projects Mentorships Junior year abroad

in school settings will seldom be able to attain this ideal, because of too-heavy case loads, and even those in private practice will have limits on their time, it is important to keep the complexity of the issues in mind. Elements of a comprehensive assessment include:

- Clarifying the referral
- Gathering school information and school records
- Conducting a comprehensive parent interview covering their concerns; evidence of advancement; child's history, skills, characteristics, interests, and activities; parents' philosophies and parenting skills; parental history including extended family; and information about other professionals who may be involved
- Conversing with the child about views of sameness and difference from classmates

and friends; view of school and how it might be improved; and what and how he/she would like to learn

- Testing, including intellectual and achievement, and measures of social adjustment and maturity.

Testing Gifted Students

Because of limited resources, group testing is often the method districts must use. Individual tests are, however, thought to be more nearly accurate. It is important to use current tests with sufficient range and high ceilings, resorting to tests standardized for older students if necessary. The nature of the tests should fit the program. Since most special programs are highly verbal, the tests should probably be verbal as well. In an effort to increase diversity in enrollment, many districts have adopted the use of visual-spatial tests, but these tests often are a poor fit for the actual programs provided.

“Tricks of the trade” in testing gifted children include a flexible use of basals and ceilings, minimizing timed tests, starting tests at a higher entry point than usual for the student’s age, and recognizing limitations in the reliability of high scores. The tester should also be prepared to see substantial discrepancies among subtests and domains as a “normal” aspect of giftedness, and to see discrepancies in results between reasoning tests and those more dependent on instruction.

The psychologist should also be prepared for special situations not usually encountered with non-gifted students. These include personality issues such as students who are used to knowing all the answers and who are fragile in the face of challenges; students who are realistically anxious about the outcome of high-stakes testing; perfectionistic or meticulous students; and students who hate to give up before they get an answer, either because they are so excited by the challenge or because of their strong academic work ethic. The psychologist will also need to be prepared to deal with highly gifted students, very young students, and even the rare student who has been coached or recently tested with the same instrument.

Testing Children of Underserved Minorities and/or Ethnically Isolated Groups

Contemporary tests are carefully developed and monitored to keep them from being “biased” in the

way that is ordinarily thought they are—that is, unduly tilted for or against a particular ethnic group. True bias in testing means that the same score has different implications or predictive value for members of one group than another. Generally speaking, that is not the case with the tests we use today. And yet, real-life circumstances have made it much more difficult for economically and socially stressed parents to bring children up in an optimal fashion, consistent with their developing into gifted students. There have been a number of efforts to find alternative ways to find promising students, especially those from disadvantaged minorities and those whose primary language is not English. These methods have had variable success, but the goal of increasing diversity is so important that the efforts have high priority. Professionals are in the difficult position of balancing the predictive power of the tests with the goal of enhancing diversity. Portfolio assessments, behavioral rating scales, hands-on performance tasks, and observations are among the tools being used.

The Joys of Working with These Children

The psychologist who works with gifted children is often in for a special treat. Many of these children love adult company, are energized by the intellectual challenge, need few reminders to keep focused, “catch onto” what the psychologist is asking, enjoy the subtle jokes built into the tests, give uncommonly fresh answers, make connections between ideas, and are meta-thinkers who share their original problem-solving strategies. Their families often put to good use what the psychologist recommends. The psychologist who accepts the challenge of working with gifted—or potentially gifted—students has a special opportunity to make a significant difference not only in the life of the student, but ultimately, in our society as well.

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