

Sifting Through the Essentials of Gifted Education for Talent Cultivation: Separating the Wheat from the Chaff

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UCONN | UNIVERSITY OF CONNECTICUT

RENZULLI CENTER FOR CREATIVITY, GIFTED EDUCATION, AND TALENT DEVELOPMENT



EACH HAS **OBLIGATIONS**







Leave the world better than you found it.

- 1. Three essential types of services needed in gifted education
- 2. Important of understanding students' attitudes toward achievement
- 3. Guiding principles for talent development



Talent Development is a Two Step Process—

- 1. We must provide opportunities for talent to surface
- 2. Then we must provide services that develop students' talents

Talent Scout

SEARCHING FOR POINTS OF PROMISE



We do this by providing opportunities and Recognizing Students' Strengths and Interests

Identify students as gifted

Develop students' gifts

It is the servicing of the gifts and talents that makes the difference in children's lives in the benefits it brings to them and to society.



services
necessary for
developing
students'
gifts

Three Gifted **Education Services**

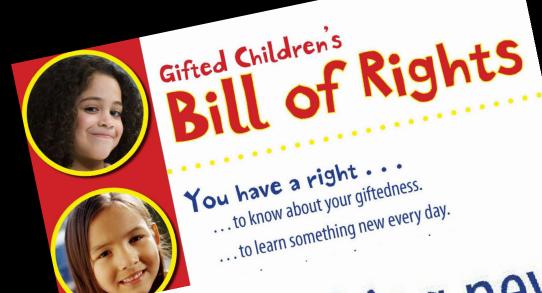
Access to Advanced Content

Increased
Depth and
Complexity in
instruction

Authentic
Learning
Opportunities
for Students
Based on
Student
Interest

Addressing Challenges in Gifted **Education** with Three Legs of **Gifted Education** Services



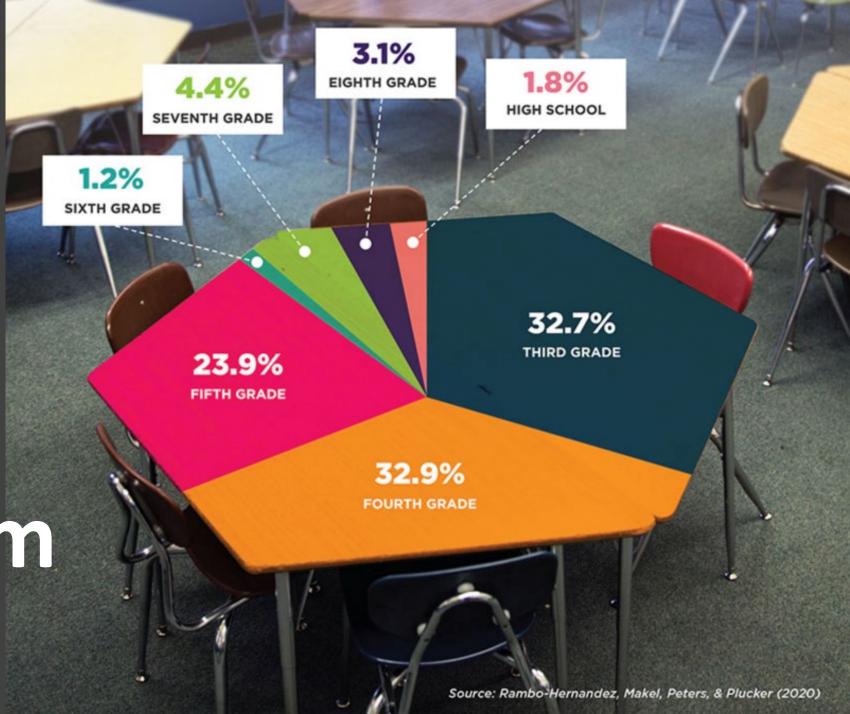


... to learn something new every day.



Classrooms are very diverse places, and every school has kids who are a year or more above grade level

Typical Fifth-Grade Classroom





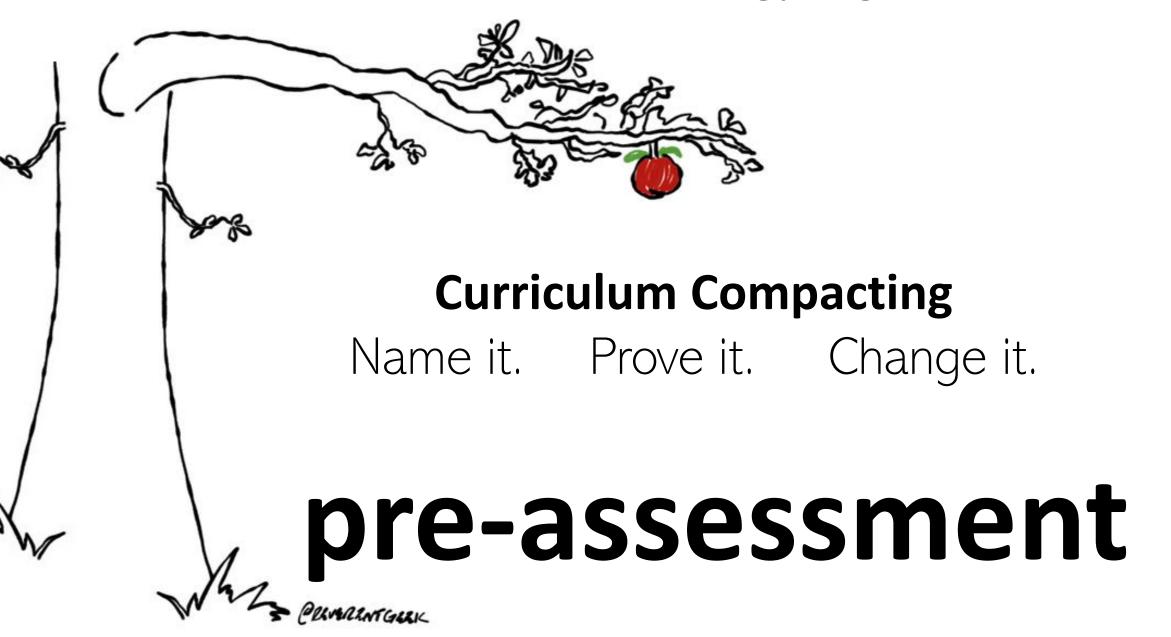
Options to ensure access to advanced content

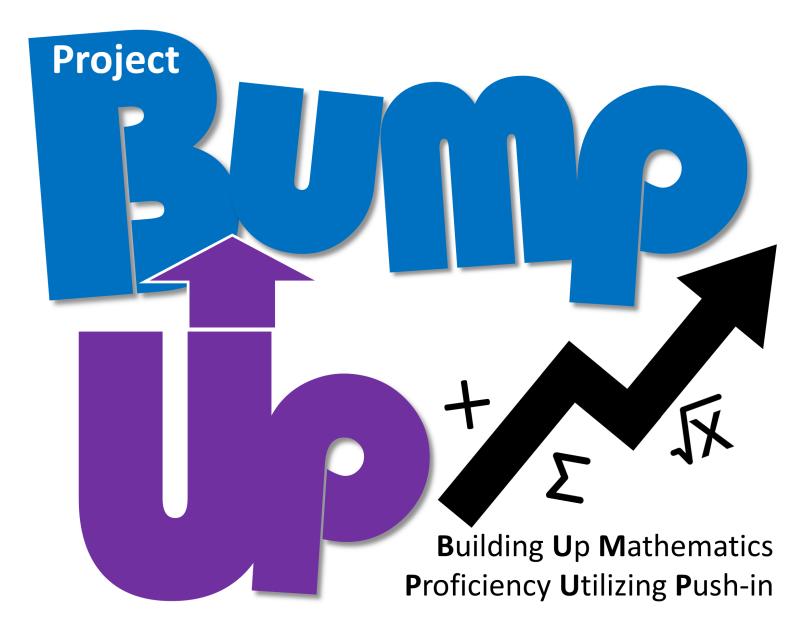
Curriculum Compacting

Subject-Specific Acceleration

Whole-Grade Acceleration

What is the most underused strategy in gifted education?





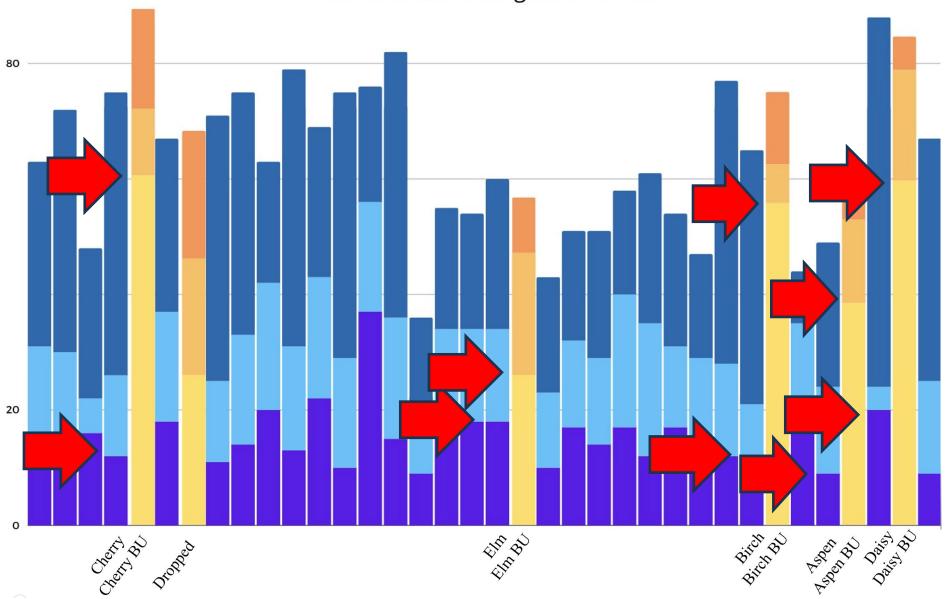
Projectbumpup.education.uconn.edu

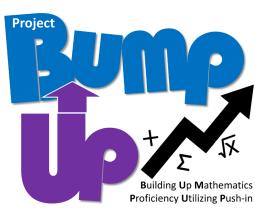
Masters

Fall 2023 Math 5th grade Interim

Meets

Approaches





Projectbumpup.education.uconn.edu

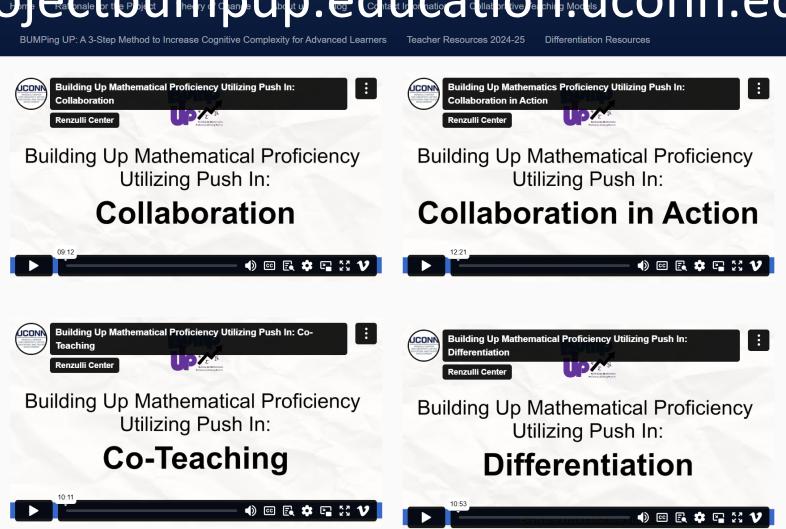








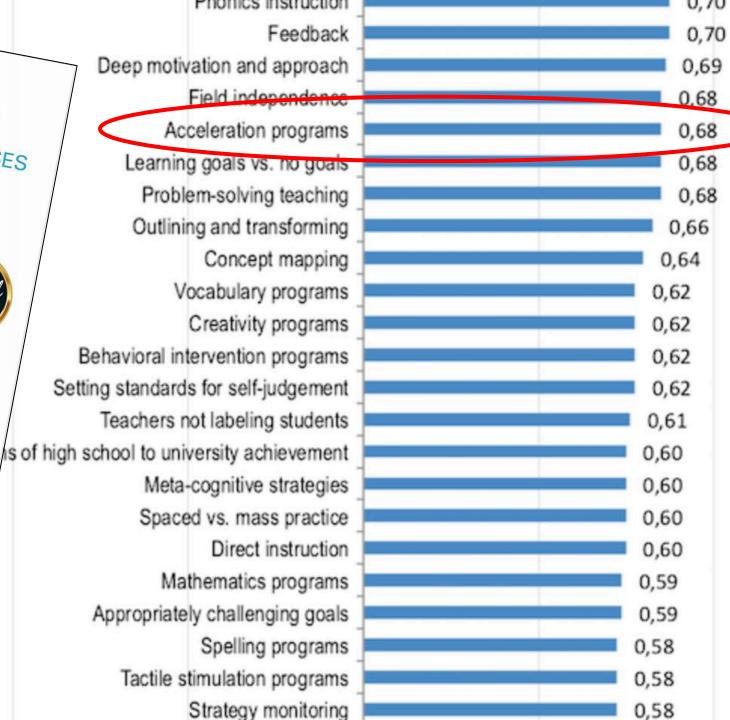




VISIBLE LEARNING A SYNTHESIS OF OVER 800 META-ANALYSES RELATING TO ACHIEVEMENT

"Reveals teaching's Holy Grail"
The Times Educational Supplement





December 2016, Vol. 86, No. 4, pp. 849-899 Review of Educational Research DOI: 10.3102/0034654316675417 What One Hundred Years of Research Says About © 2016 AERA. http://rer.aera.net the Effects of Ability Grouping and Acceleration on K-12 Students' Academic Achievement: Findings of Two Second-Order Meta-Analyses Saiying Steenbergen-Hu Northwestern University Matthew C. Makel Duke University Paula Olszewski-Kubilius Northwestern University Two son

"Three acceleration meta-analyses showed that accelerated students significantly outperformed their nonaccelerated sameage peers (g=0.70) but did not differ significantly from nonaccelerated older peers (g=0.09)."

Subject-Specific Acceleration

Universally screen students to determine who has

- local reading achievement scores in the top 10%
- local math achievement scores in the top 10%

National Center for Research on Gifted Education (NCRGE). (2024). Supporting academic acceleration in schools. National Center for Research on Gifted Education. https://ncrge.uconn.edu/acceleration/

Whole-Grade Acceleration

Universally screen students to determine who has

- cognitive scores above 120 and
- above average reading and math achievement scores two grade levels ahead

National Center for Research on Gifted Education (NCRGE). (2024). Supporting academic acceleration in schools. National Center for Research on Gifted Education. https://ncrge.uconn.edu/acceleration/

Grade skipping works!

Not only was academic achievement more positive for the grade skipped learners, but also their social adjustment and academic self-esteem were more positive.

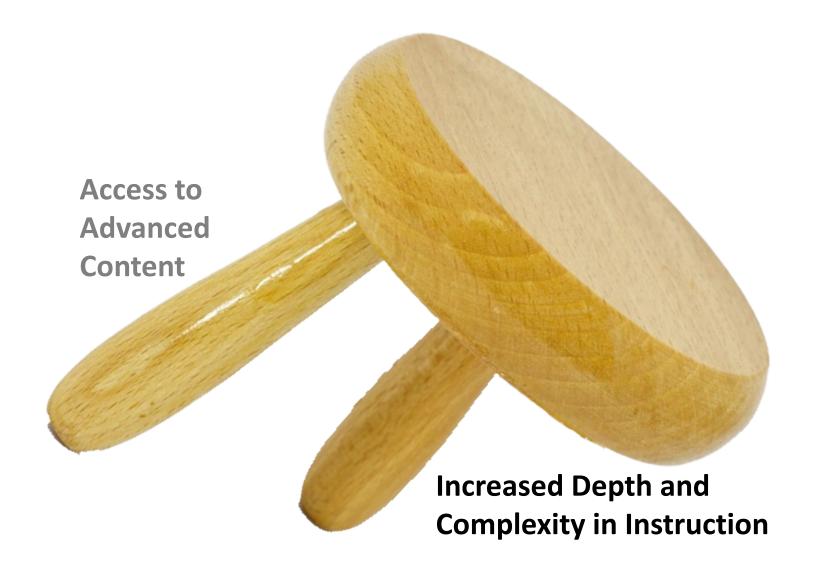
Karen B. Rogers
University of St Thomas (Minnesota)

Acceleration isn't about doing things faster...

...it is about matching instruction to students' learning needs



Addressing Challenges in Gifted **Education** with Three Legs of **Gifted Education** Services



Academic Challenge



Academic Challenge

"I don't want to be academically challenged...

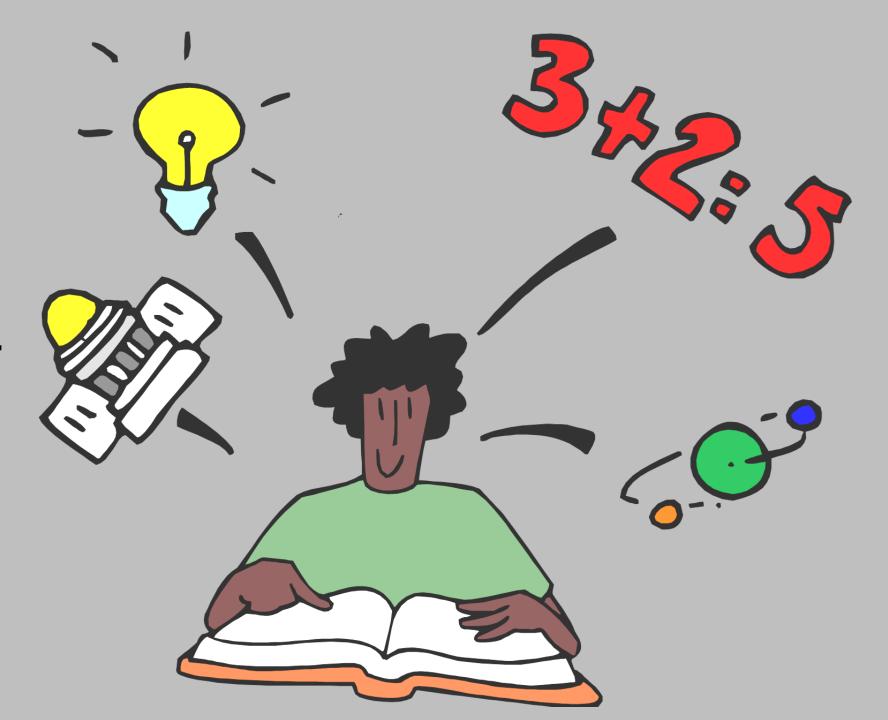
Academic Challenge

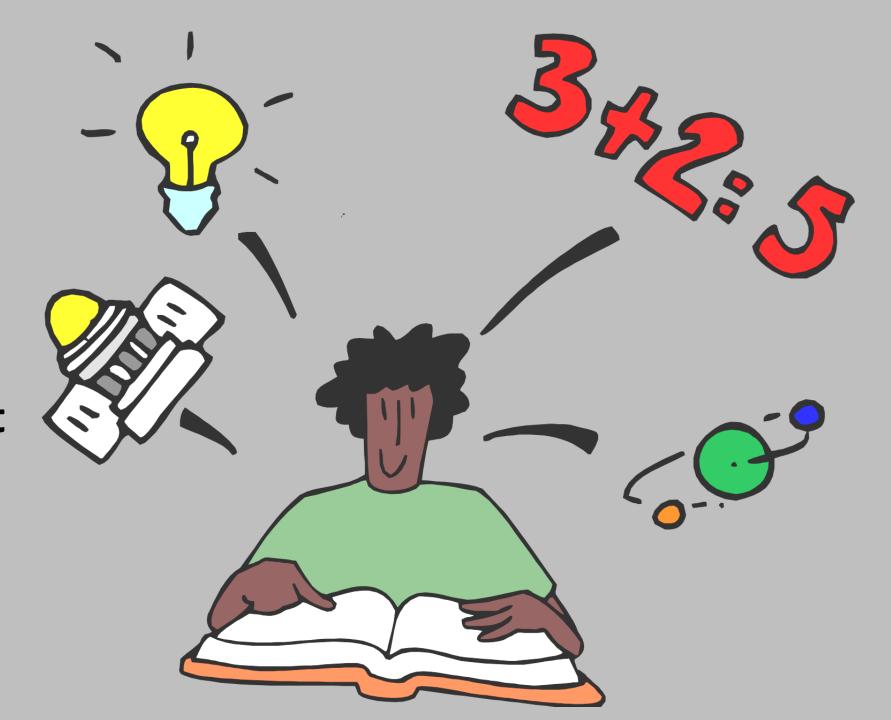
"I don't want to be academically challenged...
I want to be intellectually stimulated."

Academic Challenge quest for mastery

Intellectual Stimulation search for meaning

What is the relationship between academic challenge and intellectual stimulation?





Too little academic challenge, too little intellectual stimulation produces be students.



Too little academic challenge, too little intellectual stimulation produces be students.

Too much academic challenge, too little intellectual stimulation produces "urner" students.





Too much academic challenge with adequate intellectual stimulation produces students.

ecause content is academically challenging does not guarantee that students will find it intellectually stimulating.



Optimal challenge combined with intellectual stimulation produces students in a state of "ow".



Too little academic challenge, too little intellectual stimulation produces students.

Too much academic challenge, too little intellectual stimulation produces "urned" students.

Too much academic challenge with adequate intellectual stimulation produces frustrated students.

Optimal challenge combined with intellectual stimulation produces students in a state of "Tow".

Mihaly Csikszentmihalyi coined the term "flow"

Is what I am asking students to do sufficiently challenging AND intellectually stimulating?

Too little academic challenge, too little intellectual stimulation produces be students.

Too much academic challenge, too little intellectual stimulation produces "turned" students.

Too much academic challenge with adequate intellectual stimulation produces students.

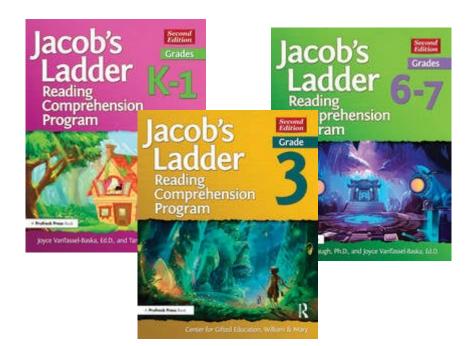
If not, how can I make it?

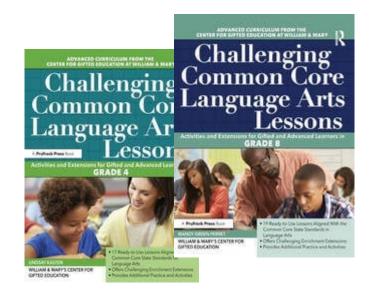
Optimal challenge combined with intellectual stimulation produces students in a state of "10".

Mihaly Csikszentmihalyi coined the term "flow".









Provide Depth and Complexity

Prompt	Icons	Definitions	Key Questions to Explain the Prompt		
LANGUAGE OF THE DISCIPLINES	(Nomenclature, lexicon, or vocabulary of the study	What terms or words are specific to the work of the (disciplinarian)? What tools does the (disciplinarian) use?		
DETAILS	£₩3	Traits, attributes, characteristics to describe something			
PATTERNS	909	Reoccurring events	What are the reoccurring events? What elements, events, and ideas are repeated over time? What was the order of events? How can we predict what will come next?		
TRENDS	M	Influences or forces that shape ideas	What ongoing factors have influenced this study? What factors have contributed to this study?		
UNANSWERED QUESTIONS	555	Unknown areas of a discipline	What is still not understood about this area, topic, study, or discipline? What is yet unknown about this area, topic, study, or discipline? In what ways is the information incomplete or lacking in explanation?		
RULES		Stated or unstated reasons or explanations	How is this structured? What are the stated and unstated causes related to the description or explanation of what we are studying?		
ETHICS	lack	Dilemmas, controversies, issues	What dilemmas or controversies are involved in this area, topic, study, or discipline? What elements can be identified that reflect bias, prejudice, and discrimination?		
BIG IDEAS		Generalizations, principles, theories	What overarching statement best describes what is being studied? What general statement includes what is being studied?		
OVERTIME	ARESENT PRESENT	Past, present, future happenings	How are ideas related between the past, present, and future? How are these ideas related within or during a particular time period? How has time affected the information? How and why do things change or remain the same?		
POINTS OF VIEW	62	Perspective, opinion	What are the opposing viewpoints? How do different people and characters see this event or situation?		
INTER- DISCIPLINARY		Connections between and across disciplines	How are these ideas related or connected?		



Sandra Kaplan's Depth and Complexity https://www.youtube.com/watch?v=McEldMETSnw



Google → Introduction to the **Prompts of Depth and** Complexity -**Project** Linking Learning

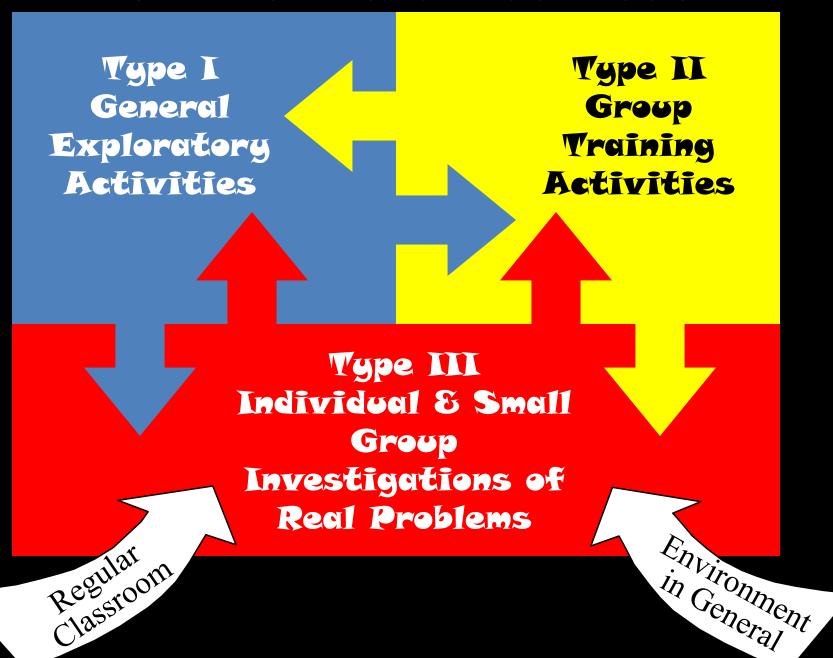
Addressing Challenges in Gifted **Education** with Three Legs of **Gifted Education** Services



Never underestimate the power of student interest in making learning meaningful Relationship Between Perceived Level of Talent and Belief in an Entity Theory of Intelligence, the Importance of Natural Ability in High Performance Levels, the Important of Personal Effort in High Performance Levels, and Interest in Each of 15 Talent Areas

Talent Area	Entity Belief	Role of Ability	Role of Effort	Personal Interes
Musical Skills	-0.093	0.019	0.36**	0.601**
Art Skills	-0.123	-0.053	0.16	0.629**
Mathematical Skills	0.027	0.263**	0.059	0.550**
Athletic Skills	0.003	0.124	0.116	0.726**
Writing Skills	0.082	0.259**	0.064	0.598**
Spelling Skills	-0.052	0.162	0.089	0.350**
Dance Skills	0.008	0.109	0.18*	0.691**
Inter-Personal Skills	-0.191*	0.15	0.11	0.453**
Logical/Reasoning Skills	-0.052	0.26**	-0.069	0.514**
Visual/Spatial Skills	-0.126	0.137	0.086	0.513**
Language Acquisition Skills	-0.029	0.063	0.095	0.496**
Verbal Skills	-0.034	0.237**	0.066	0.485**
Leadership Skills	-0.185*	0.186*	0.213*	0.613**
Science Skills	-0.072	0.064	0.05	0.688**
Overall Academic Skills	-0.002	0.093	0.038	222*

The Enrichment Triad Model



authentic methods & products

authentic audiences

My wife and I bring up STEP monthly as we raise our two boys. Thank you for exposing us to some invaluable experiences at such a young age. I still can't believe I was set free in a darkroom in elementary school!



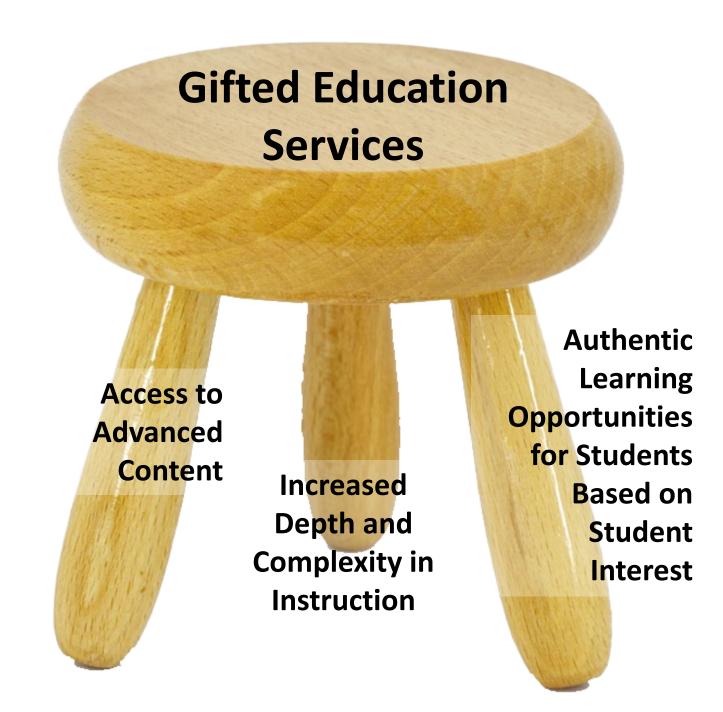


Unfortunately

is absent or limited during most of the school day for many students



Addressing Challenges in Gifted **Education** with Three Legs of **Gifted Education Services**

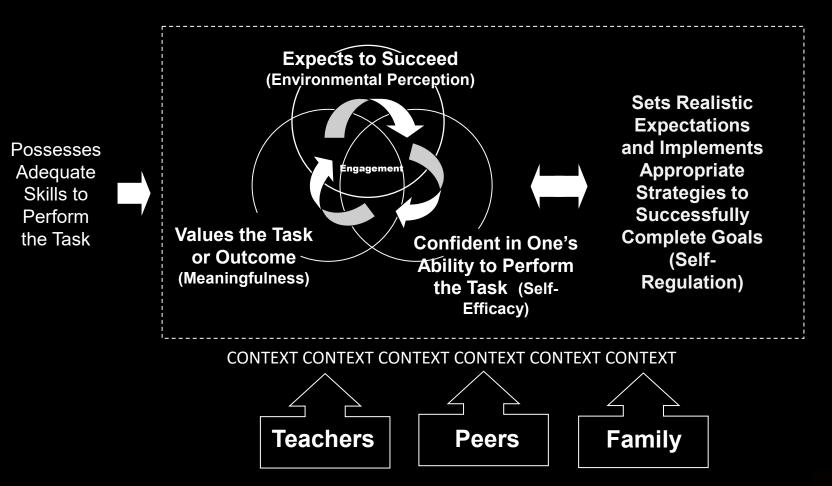


What beliefs do students need to have about themselves and tasks before they are ready to learn?



Siegle, D., McCoach, D. B., & Roberts, A. (2017). Why I achieve determines whether I achieve. *High Ability Studies*, 28, 59-72. https://doi.org/10.1080/13598139.2017.1302873

Achievement Orientation Model

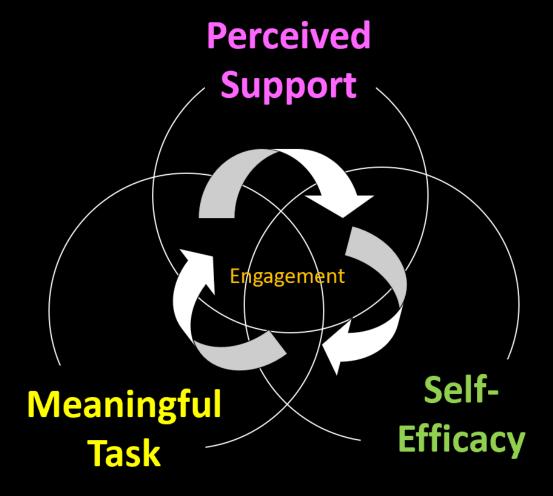


Task
Engagement
and
Achievement

Each of the four elements of the model (Meaningfulness, Self-Efficacy, Environmental Perception, and Self-Regulation) is usually present in individuals who achieve at a level commensurate with their abilities. Some of these factors may be stronger than others, but overall, achievement-oriented individuals display a combination of all four traits. Remediation can be based on diagnosing which element or elements are deficit and addressing them. Two individuals might have very different remediation programs based on their achievement-orientation profiles.



Confidence: I am capable!



Interest: It's important to me!

Trust: I have what I need and feel supported!

Engage: I am ready to do it!



Confidence Interest

rust leads to

Engagement

When students value a task or outcome and have positive perceptions of their skills and their opportunities for success, they are more likely to implement self-regulatory behavior and apply appropriate strategies for success.

Three key principles to guide talent development...

1. Recognize and Value Individual Differences

- -Remove Limitations on what students can learn and how quickly
- -Provide Freedom to Explore Passions

2. Support Intellectual Curiosity

- -Encourage and Model Creativity and Risk Taking
- -Help Students Understand They Can Learn and Grow

3. Provide Life-Long Thinking and Learning Tools

- -Provide Meaningful, Relevant Learning Experiences
- -Encourage Problem Solving





"I am only one, But still I am one. I cannot do everything, but still I can do something; And because I cannot do everything I will not refuse to do the something that I can do."

- Edward E. Hale