

Who, Where, What, and How?

"In effective classrooms, teachers consistently attend to at least four elements: whom they teach (students). where they teach (learning environment), what they teach (curriculum), and how they teach (instruction)."





- Tomlinson and McTighe (2006)

GIFTED & TALENTED -WHO ARE OUR KIDS?



Myths of Giftedness

Confirmation Bias...

- ...defined as the tendency to search for,
- interpret,
- favor, and recall information
- in a way that confirms one's beliefs or hypotheses, while giving disproportionately less consideration to alternative possibilities.

STEPHEN COLBERT

Truthiness (n.)

What you want the facts to be, as opposed to what the facts are. What feels like the right answer.

as opposed to what reality will support.



Where on the continuum do you consider yourself to be?...



Truths of Giftedness: Personality

- Insightfulness
- Intensity Sensitivity/Empathy
- Need to understand
- Non-conformity
- Perfectionism
- Perseverence
- Acute self-awareness Need for mental
 - stimulation
 - * Excellent sense of humor
 - * Need for precision of logic
 - Questioning/challenging

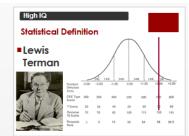
Truths of Giftedness: Intellectual

*Capacity for reflection

processes

- Divergent thinking/ creativity
- Passion for learning
- Analytical thinking · Early moral concern
- Facility with abstraction Complex thought
- Intellectual curiosity Exceptional reasoning Rapid learning rate
 - Vivid imagination







Talent Development

STANLEY & BENBOW's Talent Search Conceptualization

- Study of Mathematically Precocious Youth
- Began at Johns Hopkins University
- SAT as THE operational definition



Policy and Programs

Missouri State Legislation

Those who *exhibit precociou development of mental capacity and learning potential as determined by competent professional evaluation to the extent that continued educational growth and stimulation could best be served by an academic environment beyond that offered through a standard grade level



DABROWSKI's Theory of Emotional Development

Three Factors:

Factor 1: Heredity / Constitutional

Factor 2: Environmental / Social

Factor 3: Self-directed / Autonomous



DABROWSKI's Theory of Emotional Development

Developmental Potential:

Special abilities or talents

Autonomous factors

DABROWSKI's Theory of Emotional Development Overexcitabilities

Higher than average responsiveness to stimuli... in intensity, frequency and duration...[having] the effect of making concrete stimuli more complex, enhancing emotional content, and amplifying every experience.

DABROWSKI's Theory of Emotional Development

Overexcitabilities

- Psychomotor
- -Sensual
- **Imaginational** Intellectual
- Emotional

The Columbus Group

"Giftedness is asynchronous development in which advanced cognitive abilities and heightened intensity combine to create inner experiences and awareness that are qualitatively different from the norm...



The Columbus Group

...This asynchrony increases with higher intellectual capacity. The uniqueness of the gifted renders them particularly vulnerable and requires modifications in parenting, teaching and counseling in order for them to develop optimally."





"GIFTEDNESS IS

A GREATER AWARENESS, A GREATER SENSITIVITY, AND A GREATER ABILITY TO UNDERSTAND AND TRANSFORM PERCEPTIONS INTO INTELLECTUAL AND EMOTIONAL EXPERIENCES."

-- Annemarie Roeper

GIFTED & TALENTED -



THEIR WORLD TODAY: EDUCATION POLICY AND CONTEXT



WE'RE DOING A GREAT JOB OF PREPARING OUR STUDENTS FOR THE 20TH CENTURY...



The goal of education is not to increase the amount of knowledge but to create possibilities for a child to invent and discover, to create people who are capable of doing new things.



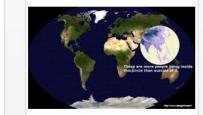
- Jean Plage:



The Society's Need for Gifted and Talented Performance / Productivity

The advancement (preservation?) of our culture.

- Friedman
- Pink
- Drucker



The Society's Need for Gifted and Talented Performance / Productivity

The changing nature of work

 Gifted/talented students' traditional career choices were "Knowledge Workers - (people who get paid for putting to work what one learns in school...)



The Society's Need for Gifted and Talented Performance / Productivity

Transitioning of the global economy from the "Information Age" to the "Conceptual Age" in which our children's livelihoods will be increasingly dependent on their ability to master skills

that enhance creativity; "value added" is the new watch word.



ANTI-INTELLECTUALISM IN AMERICA



"NO COURSE SHOULD BE TAUGHT AT A UNIVERSITY THAT DOESN'T LEAD TO A JOB."

America's Love-Hate Relationship with the Gifted



The World Is Flat

homas L. Friedm



What is not covered by the The Standards define what all students are expected to

know and be able to do, not how teachers should teach... they do not—indeed, cannot—enumerate all or even most of the content that students should learn. While the Standards focus on what is most essential, they do not describe all that can or should be taught

The Standards do not define the nature of advanced work for students who meet the Standards prior to the end of high school. For those students, advanced work in such areas as literature, composition, language, and journalism should be available.



The Standards set grade-specific standards but do not define the interpretion of the support of



What was educationally significant and hard to measure has been replaced by what is educationally insignificant and easy to measure. So now we measure how well we taught something that isn't worth learning."



-- Art Costa



CORE

"Failure to help the handicapped child reach his potential is a personal failure for him and his family.

Failure to help the gifted child reach his potential is a societal tragedy, the extent of which is difficult to measure but which is surely great. How can we measure the sonata unwritten, the curative drug undiscovered, the absence of political insight? They are the difference between what we are and what we could be as a society."

GIFTED & TALENTED -WHAT DO OUR KIDS NEED? READING & LITERACY





Now that I was compelled to think about it, reading was something that just from the property of the property

J. K. Rowling



[To understand something]... is to see it in its relations to other things: to note how it operates or functions. what consequences follow from it, and what causes it.

■ Why do we teach?

To change lives...



- John Dewey

-- Joseph Renzulli,

PLATO

429-347 B.C.E.



- Student of Socrates • Teacher of Aristotle, who in turn taught Alexander
- the Great *Tells of Socrates and the
- Oracle at Delphi

SOCRATES

470-399 B.C.E.



- · Ugly, potbellied, with bulging eyes and a snub nose
- *Teacher of Plato •Unconventional tactless and assumed rough and vulgar mannerisms.
- Provoked the "Sophists"



"Socrates, of all mortals, is the wisest."



I only know that I know nothing.

- Socrates

"Teachers no longer are the sole keepers of knowledge to impart to their students...Children today can find information on any subject within seconds via the Internet. A teacher's job now is to teach students how to find primary sources, critically analyze the vast amounts of information out there and then apply their new learning to useful, real-world problems."



ESSENTIAL QUESTIONS...

- · ...inquire about key problems, issues, themes, concerns, or interests relevant to our students and our community
- · ...are open-ended-why, how, what if, questions
- · ...Socratic, non-judgmental, neutral, inviting exploration of ideas





ESSENTIAL QUESTIONS

- ·...spark discussion
- · ...ask for interpretations, claims, argument
- ·...require evidence gathering
- ·...lead to Essential Understandings (thesis of the moment)
- ·...lead to products and performances



ESSENTIAL QUESTIONS

- ·Emphasizes the production of
- solutions to real world problems in
- the manner of the practicing
- expert/specialist.



THEMES, OR ESSENTIAL UNDERSTANDINGS OF 21ST CENTURY LEARNING

•Just-in-time content instead of iust-in-case

content

·Big problems need conceptual thinkers

Essential Question:

- What problem
- must we solve today?



21ST CENTURY LEARNING...

"A master teaches essence. When the essence is perceived, (s/)he teaches what is necessary to expand the perception.

The Wu Li master does not speak of gravity until the student stands in wonder at the flower petal falling to the ground."

Gary Zukav



- Every day, teachers coaching students in skill practice, in answer to a driving question...
- What will your students question today? Discuss? Research? Debate? Create?





GIFTED KIDS CAN HANDLE "THE BIG IDEAS" ...

- ·Can be coached to ask the tough
- questions ·...to tackle the big problems
- ·...to find the cures
- ·...to see the hidden themes





FOUR CORE ELEMENTS OF INSTRUCTIONAL DES Knowledge objectives (knowledge) *Skill objectives (do) • Essential Understandings (un • Essential Questions (explore)

....organized by an overarching concept

CONCEPTS ORGANIZE OUR LIVES.

21ST CENTURY LEARNING...

·...poses the

BEFORE the

mastery of facts

FIRST.

begins.

problem, dilemma,

or creative project

- *They make the content
- bytes of data-matter. *They prompt us to ask the
- Big Questions of Life.
- They make us use critical thinking skills to solve the Big Questions of Life.

objectives-all the bits and

"The concepts fundamental to the human condition [family, authority, faith, love, change, causality, truth, and wisdom] are also fundamental to human learning—to our understanding of the world around us and within us. Consequently, such ideas can and should be fundamental to the educational process."





CONCEPTS: ABSTRACT, BIG, OPEN!

- Concepts are usually one word:
- abstract, infinite, and vague.
- · Concepts inspire questions · Concepts require analysis,
- synthesis, and evaluation
- · Concepts lead to generalizations themes, and the art of argumentation.





matter to your



- Connection
- Meaning



Students do **not** get excited about facts.

Learners get excited and passionate about ideas.



WHAT DO OUR KIDS NEED? **DIFFERENTIATION!**

GIFTED & TALENTED -

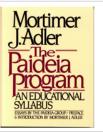
DIFFERENTIATION FOR GIFTED/ ADVANCED LEARNERS: THE KEY QUESTIONS



- Would all children/students want to do this?
- Could all children/students do this?
- Should all children/students expect to succeed in doing this?

A. Harry Passow





THREE COLUMN DIAGRAM

DIDACTIC	COACHING	MAIEUTIC or SOCRATIC
Acquisition of Knowledge	Develop Skills	Enlarge Understanding
By means of Lecture and Textbooks in Language, Literature, Math Science and Social Studies	Exercises Questioning about skills in problem solving critical thinking, communication	By means of Socratic Questioning about ideas in the discussion of books, arts

TEACHING / LEARNING OUTCOMES IN THE THREE COLUMN DIAGRAM

DIDACTIC	COACHING	MAIEUTIC or SOCRATIC
Knowledge	Skills	Understanding

CURRICULUM & INSTRUCTION DIFFERENTIATION IN THE THREE COLUMN DIAGRAM

DIDACTIC	COACHING	MAIEUTIC or SOCRATIC
Content	Process	Product

COGNITION IN THE THREE COLUMN DIAGRAM

DIDACTIC	COACHING	MAIEUTIC o SOCRATIC
Knowledge Comprehension	Application Analysis	Synthesis Evaluation

QUESTIONING IN THE THREE COLUMN DIAGRAM

DIDACTIC	COACHING	MAIEUTIC or SOCRATIC
WHO WHAT WHEN WHERE	нош	WHY WHAT IF

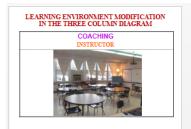
ROLES IN THE THREE COLUMN DIAGRAM

DIDACTIC	COACHING	MAIEUTIC or SOCRATIC
Teacher	Instructor	Educator

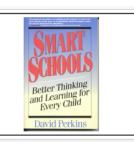
LEARNING ENVIRONMENT MODIFICATION IN THE THREE COLUMN DIAGRAM

DIDACTIC	COACHING	MAIEUTIC or SOCRATIC
LEARNIN	SHOULD G ENVIRO MODIFIEI	NMENT

LEARNING ENVIRONMENT MODIFICATION IN THE THREE COLUMN DIAGRAM DIDACTIC







The mystery boils down to this. Knowing is a state of possession, and I can easily check whether the students have the knowledge they are supposed to... But understanding somehow goes beyond possession. The person who understands is capable of 'going beyond the information given,' in Jerome Bruner's eloquent phrase. So let us view understanding not as a state of possession, but one of enablement.

When we understand something, we not only possess certain information about something, but are enabled to do certain things with that knowledge.

-- David Perkins

When you understand, what happens is your heart lights up.

-- Michael Clay Thompson

Understanding by Differentiated Design

"But in the end, education is about learning. Learning happens within students, not to them. Learning is a process of making meaning that happens one student at a time... We have to acknowledge that however impressive our curricular design, it will have to be implemented in diverse ways according to diverse timetables and in response to diverse learner needs."

The Differentiated Clavarrom

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