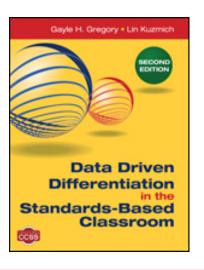


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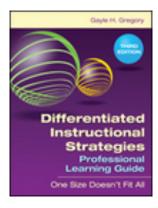
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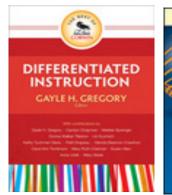
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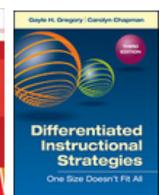


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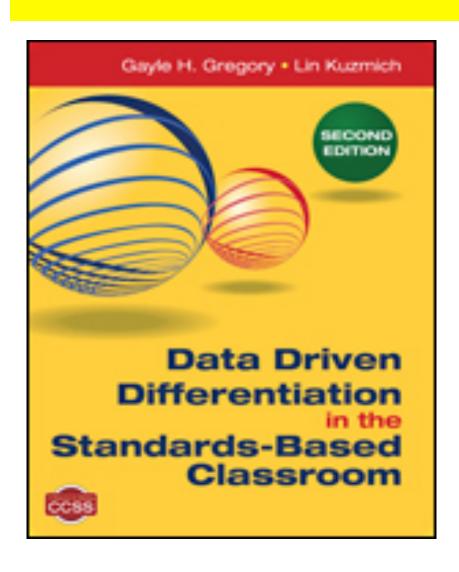
Related titles







Data Driven Differentiation



Presented by Gayle Gregory

October 1, 2015



Learning Intentions

 To examine the types of data that can be collected and used to plan for differentiated instruction.

Historically

- ✓ Teach, Test, Hope for the best!
- ✓ Little training in assessment
- ✓ Recognize that assessment is more than grading
- ✓ Challenge to collect and use data.

so many learners

25 - 37 %

37 - 50%

15 - 25%



Robert Lynn Canady, University of Virginia

Why Differentiation

 Every student is different: background, prior knowledge and experiences, preferences and interests, talents, culture, social and emotional needs.

 Some commonalities are true about the human brain and edu neuroscience facts that should guide our practice.

DIFFERENTIATION

Differentiation is a philosophy or mindset that helps teachers to plan strategically in order to reach the needs of the diverse learners in classrooms today toward targeted standards.

MINDSET:

The New Psychology of Success

Carol S. Dweck, Ph.D. Ballantine Books, 2008

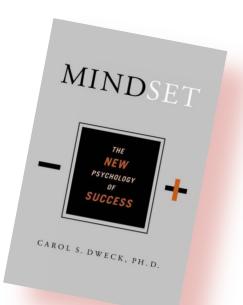
Fixed Mindset:

intelligence is static

Growth Mindset:

intelligence can be developed

■ The view you adopt for yourself, profoundly affects the way you lead your life.



A "Fixed" MINDSET:

- Believe one's intelligence and qualities can't be changed.
- Feel pressure to prove oneself over & over.
- Fear that if I'm unsuccessful, people will find out that I'm dumb.
- Success isn't about learning; it's about proving one's abilities...

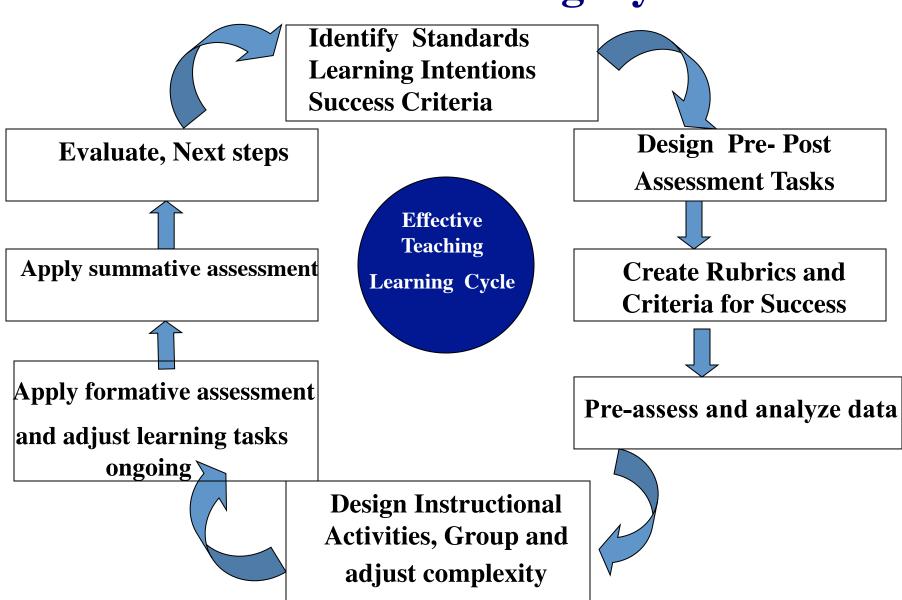
"Growth" Mindset

- Some kids keep trying something until they get better at it.
- They ask questions and try to figure out the answers.
- When experiencing difficulties, they don't give up right away.
- They are willing to put in extra time to get better.

Fostering a Growth Mindset:

- Encourage risk-taking
- Take on challenges
- Provide opportunities for feedback
- Learn from and share your failures
- Promote positive "self-talk"
- Learning is sloppy -expect it to take time
- Encourage "do-overs"
- "Not yet"

Recursive Learning Cycle





I collect the following data.. Data is important because.. It's difficult to use data I need help with.... because.....

Diagnostic thinking

- When to collect and how to ensure quality data.
- Examine cause and effect:
- If I do this?
- If I know this?
- Are my expectations appropriate?
- What success might I expect?

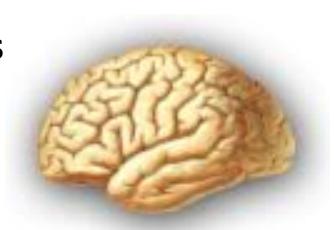
Data Driven Differentiation In the Standards-Based Classroom

Creating the Climate	Knowing the Learner	Assessing the Learner	Curriculum	Adjustable Assignments	Instructional Strategies
Building Connections •Risk Taking •Theaters of the Mind •Resilience •Nurture Foster and Sustain Growth •Feedback •Reflective Learning •Rituals •Respect •Cultural History •States of Mind •Celebration •Higher Level Thinking	Learning Styles •Strengths •Needs •Attitudes •Preferences 8 Multiple Intelligences Intelligent Behavior •Persistence •Listening •Metacognition •Flexibility •Accuracy & Precision •Posing Questions & Problems •Experience & New Application •Sensory •Creativity •Efficacy	Diagnostic Thinking •Pre-Assessment •Formative Assessment •Formal versus Informal Data Collection •Performance Assessments Analyze Formative Data •Grouping •Selecting Differentiation Strategies •Critical Thinking The Role of Other Forms of Assessment •Using Summative Data •Self Assessment	Curriculum Mapping •Standards-Based •Focus and Target •Expectations Unit Planning •Standards •Benchmarks or Objectives •Key Concepts •Skills •Critical Questions •The Role of Critical Thinking •Relevance •Final Assessment •Rubric •Pre-Assessment •Chunking a Unit •Transition Points	T.A.P.S. Total group Alone Pairs Small group Adjustable grids •Compacting •Adjusting for Competency •Content & Materials •Communication & Technology •Multiple Intelligences •Readiness •Interest & Choice •Process & Rehearsal	Best Practices Strategies for: •Sensory Memory •Short Term Memory •Long Term Memory •Long Term Memory Research-Based Strategies: •Inductive Thinking •Note Taking and Summarizing •Homework •Non-linguistic Representations •Cooperative Group Learning •Lesson Planning

Safe & Secure Climate & Environment

- Physically comfortable
- Known plans and expectations
- Clear procedures
- Adequate time
- Immediate feedback
- Inclusion





Perceived Threat, Anxiety and Pressure Can Minimize Learning



When responding to true danger or perceived threat, brains are less capable of doing any of the following:

- Being creative
- Remembering and accessing prior learning
- Engaging in complex tasks, open-ended thinking, and question
- Planning and mentally rehearsing
- Communicating effectively

Flow: The Optimal Experience

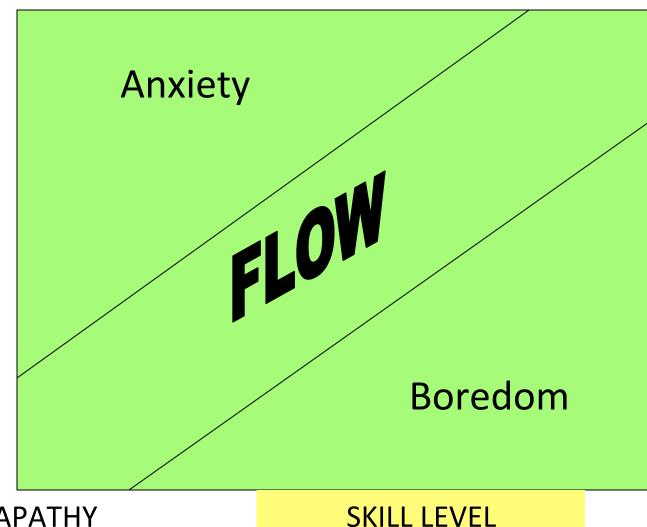
- •) Challenged to your skill level
- Ongoing feedback
- Action quickly follows inspiration
- Sense of control
- Unselfconscious
- Unaware of passage of time
- Intrinsic motivation



M. Csikszentmihalyi

Getting Students into the FLOW ZONE

CHALLENGE



APATHY M. Csikszentmihalyi

Goldilocks & the Three Bears



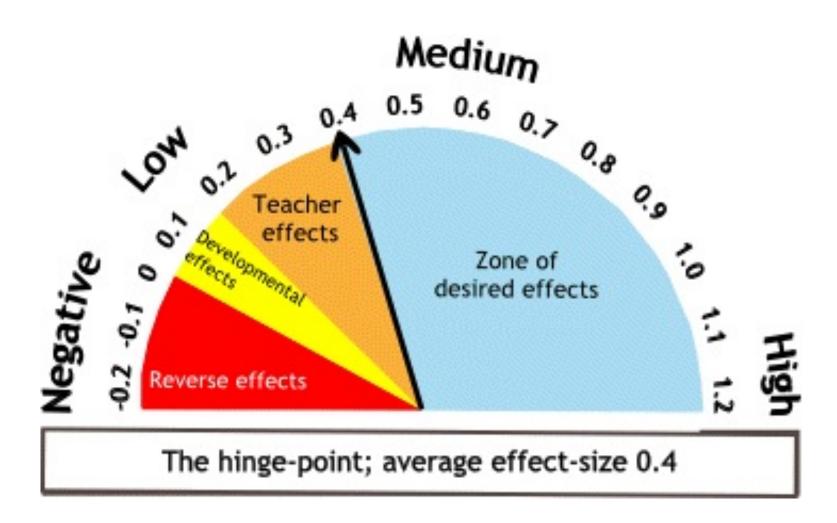
It was JUST RIGHT!

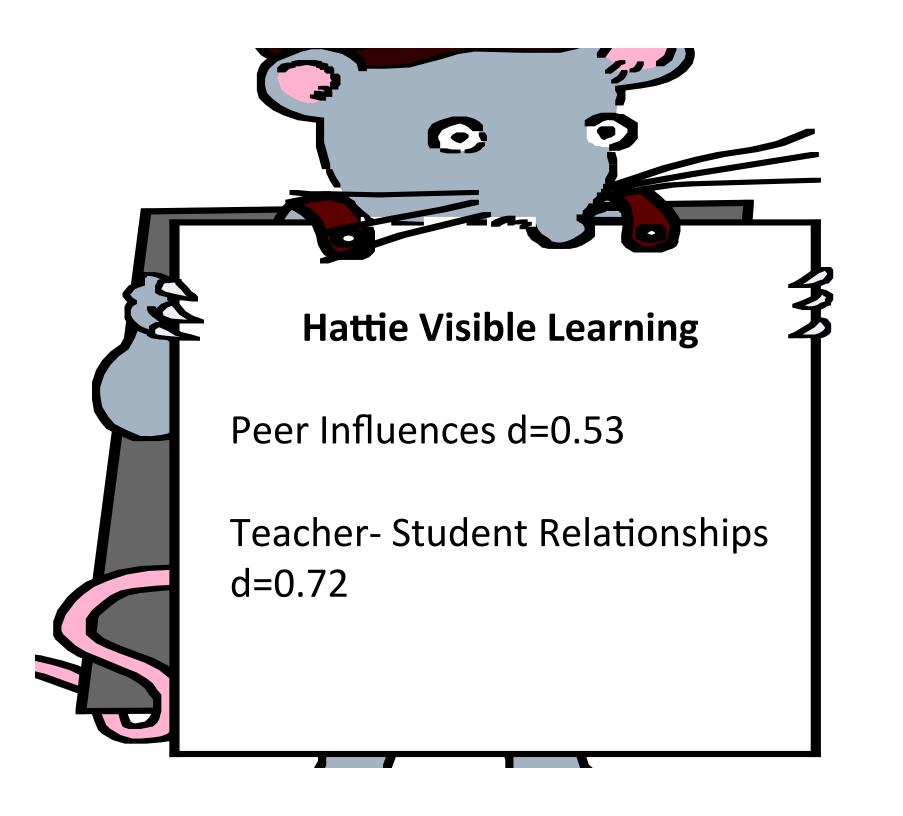
Caring and Support

- Is this teacher my friend or enemy?
- Will I be embarrassed or feel stupid?
- What will my classmates think?
- Can I do this work?
- Where is my connection to this task?
- Am I valued?

Inclusion generates a sense of security & enhances the brain's ability to engage.

Know Thy Impact





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Sweet Spot



 A place where a combination of factors results in a maximum response for a given amount of effort.

The Learner's "Sweet Spot"

Attention

- Survival
- Novelty
- · Pattern detection

Prior Successes

- · Process and product
- Choices
- · Growth mindset

The Learner's Sweet Spot

Interest

- Relevancy
- Meaningfulness
- Prior knowledge

Positive Feelings

- Humor and joyfulness
- · Secure emotional environment
- Safe physical environment



STUDENT PROFILES

- > Learner Preferences
- > Cultural Responsiveness
- **→** Prior Knowledge & Readiness

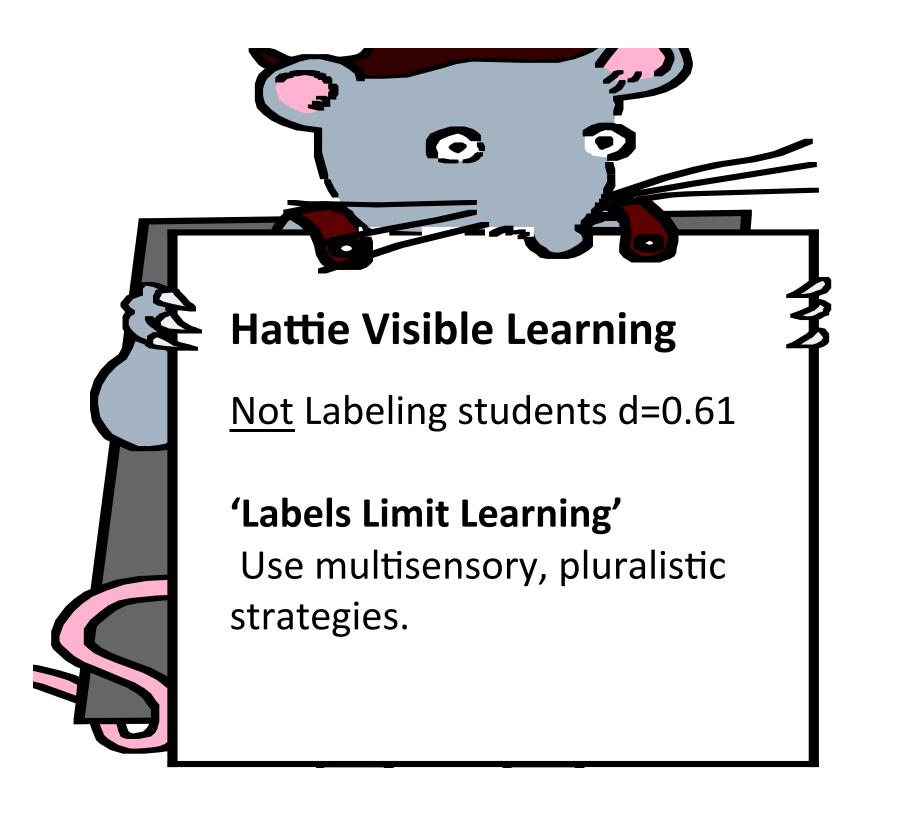




• A Learning Profile is an umbrella term to collect, identify, and share the ways in which each of us perceives, takes in and processes information, and learns best as individuals.

 It is grounded in a body of cognitive research suggesting there are many different ways that individuals approach learning.

Learning Preferences:		Outside School:		
Visual – Auditory – Kinesthetic		Sports		
Analytical – Creative – Practical		Music		
MI Strengths:		Hobbies		
MI Challenges:		Pop Culture		
Group/Independent		Free Time		
Performer - Producer	Student Prof	Student Profile:		
	Gender: M F Birt		Employment	
Family/Social Connections: Grade:School		Academic Challenges:		
Family Class:				
Friends @ School		Academic Strengths:		
Other Friend		Reading Level		
Leader - Follower		Artistic Abilities		
Social Network		Technology Savvy		
General Health:		Favorite Subjects		



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One of the most significant changes we have seen...

...Assessment for Learning



Assessment for Learning

Is any assessment for which the first priority in its design and practice is to serve the <u>purpose</u> of promoting students' learning.

- Black et al, 2004

Assessment for Learning

...it should provide information that teachers and their students can use in assessing themselves and one another and in modifying the teaching and learning activities in which they are engaged. Such assessment becomes "formative assessment"

- Black et al, 2004

Why is pre-assessment important?

- lacktriangle

- lacktriangle



Why is pre-assessment important?

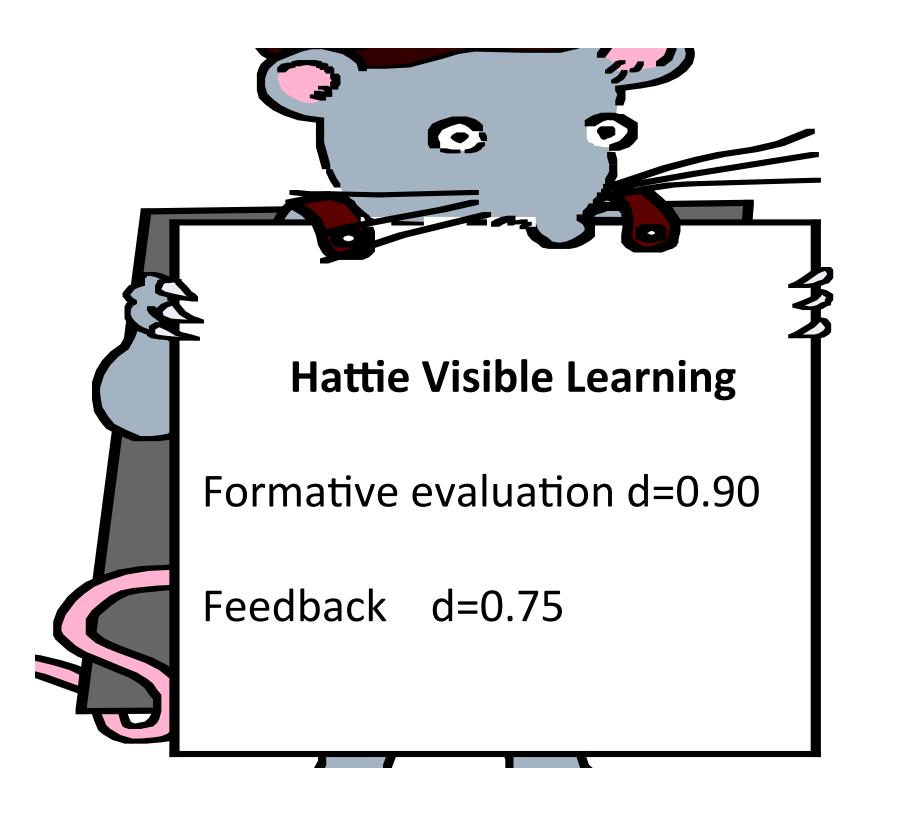


- Tells us what they already know
- Gives us a benchmark to begin
- Identifies misconceptions
- Identify levels for differentiation
- Helps us plan more accurately for learning: jump starts and back fill



Information for grouping

Then why is it not widely practiced?



Collecting data

Getting to Know them	Pre-Assessments	Check for understanding
Surveys:	Concept webs	Questioning
Inventories	Graphic organizers	Homework
Style preferences	T charts	Tickets out
Environment	Alphabet brainstorm	Journaling
Interests: topics or subjects	KWL etc	Give one get one
Multiple intelligences	People Search	Quizzes
P.M.I.	W 5	Conferences
	Anticipation guides	Partner dialogue and
	Rubric	eavesdropping
	Quick writes	Carousel brainstorming
	Tickets out	Demonstrations
	4 Corners	White boards
	Questioning	SMART board
	Graffiti	Observations
	T, F tests	3-2-1
		Fist of 5
		Thumbs up

Four Corner Name Tag

Something I know about	I'd be interested in
Reptiles Insects Mammals	
<u> </u>	lame
l' d like to work on in this project	To work on this project I'd like to be's or's partner

3

Things you learned today

2

Things that connected for you

1

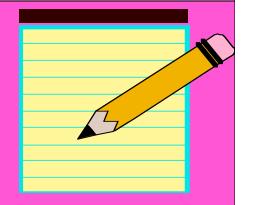
Question you still have

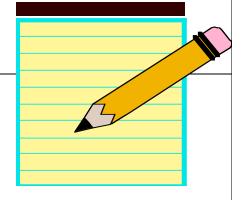


Things you do well

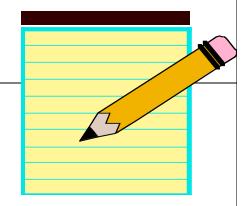
Things that you need to practice

L Key ideas you learned





Plus



Minus

Interesting.....

Anticipation Guides

Before the reading		Consider these:	nsider these: After the reading I think now Eviden	
I think	Why?	Insects have six legs		
		All insects can fly		
		Insects hibernate		
		Insects are poisonous		

Anticipation Guide for Antigone

Before th	ie	Consider these:	After the readi	_
reading I think	W/h9		I think now	Evidence
1 think	Why?	Loyalty to your blood family is more important than loyalty to your friends		
		Getting a new job or a promotion tends to change the way a person behaves towards his/her co-workers		
		If the laws of the government conflict with your personal morals or religious beliefs, the law must be followed.		
		Relationships between siblings are always full of jealousy and conflict.		

Before the	Consider these:	After the reading	After the reading		
reading I think Why?		I think now	Evidence		

Content Specific Pre-assessment libras

Language Arts/English	Mathematics	Art	Science	Physical Education
Business & Technology	Music	Family Consumer Science or Industrial Technology	Social Studies	Foreign Language

Students given marks are likely to see it as a way to compare themselves with others; those given only comments see it as helping them to improve. The latter group outperforms the former.



(2003, Black, Harrison, Lee, Marshall & Wiliam)

Feedback Without Grading

- Student learning can be advanced through comments/feedback on oral and written work
- Comments should identify what has been done well and what still needs improvement and give guidance on how to make that improvement
- Opportunities for students to respond to comments should be planned as part of the overall learning process.

Figure 1.2: Customizing Your Feedback			
Type of Student Needs and Behaviors	Starting Points for Teacher Feedback		
Students who need to feel in control	Make certain feedback ends with a choice		
Students who seem confused	 As you further explain the step the student is working on, clearly connect to the target Use examples to make the parts to whole relationship evident Try to ask questions about the personal impact of the issue or task 		
Students who seem anxious about specific learning tasks	 Reduce the surprise by referring back to the rubric or model Break the steps of a task down into more achievable/quicker chunks 		
Students who seem embarrassed	 Eliminate any possible public conversation, keep it private Allow students to chose from among a variety of acceptable methods to communicate learning 		
Students who cannot begin a project	Structure and limit the choices and have students describe the one with the most advantages		
Students who need frequent praise	 Teach them to self-evaluate using a checklist and bring you the list when multiple items have been checked off Provide language for positive self-talk Provide specific praise that celebrates a completed goal set by the student 		
Students who resist change in process or method	 Give them a connection to the previous process and a real world rationale for the change Have students suggest a viable method or 		

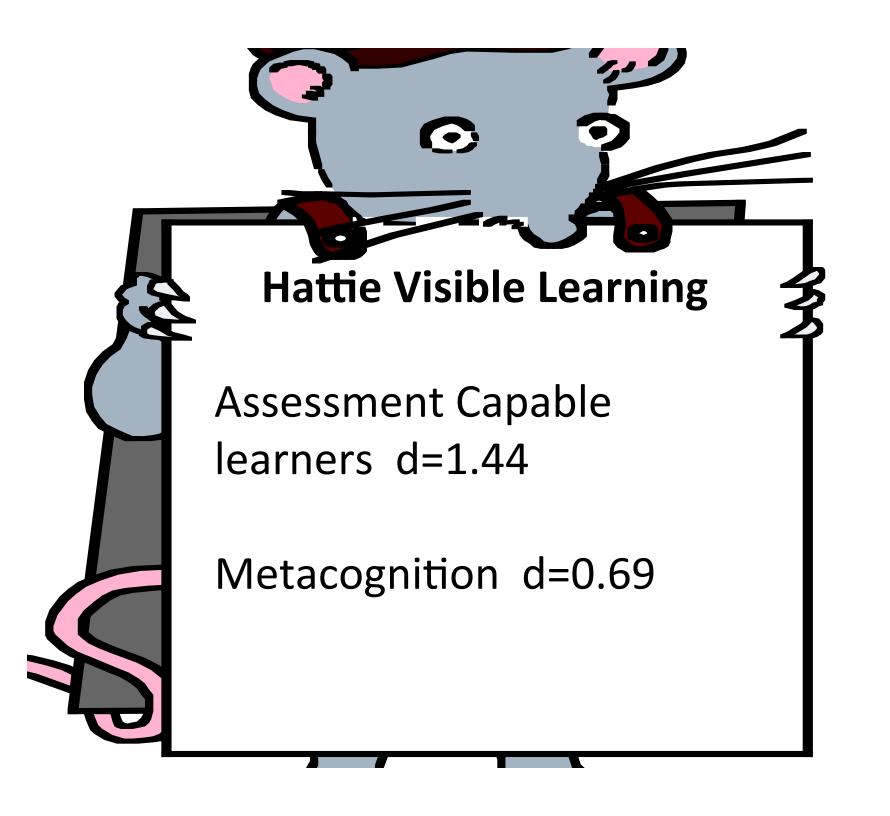
Peer/Self Assessment

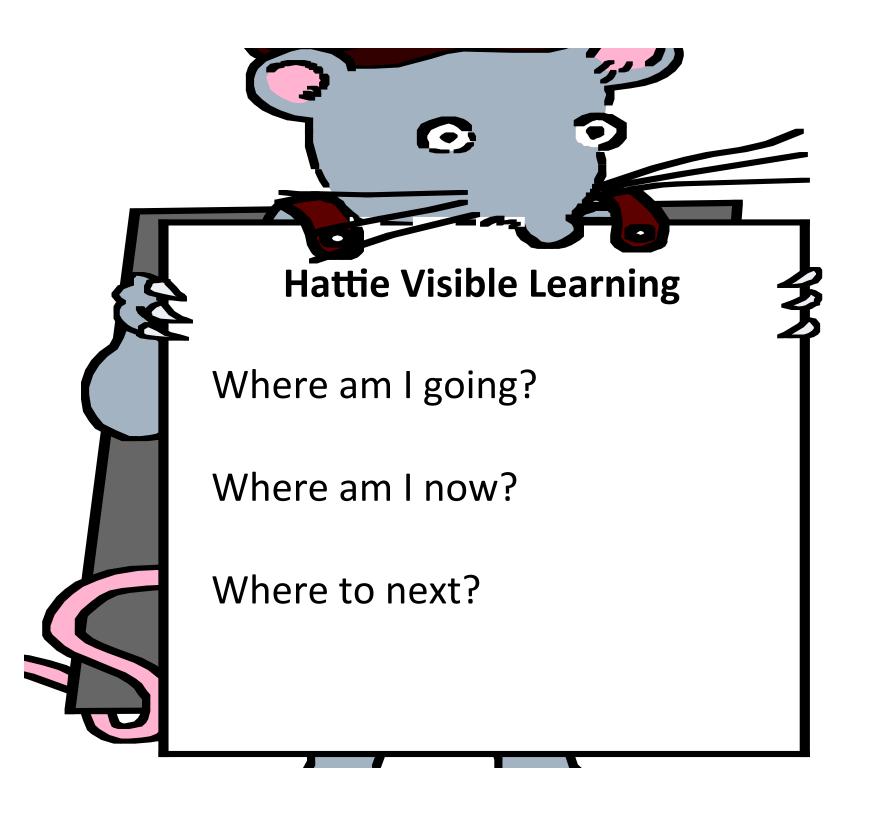
- Self assessment is key to learning
- → Peer assessment is an important complement to self assessment if clear criteria is given to guide them
 - → Ideas to provide practice (e.g.,

traffic light icon)

→ Rubrics







Cueing Techniques Seye,

- What am I doing?
- Why am I doing it?
- What other way can I do it?
- Can I repeat the process?
- How would I help somebody else to do it?

Mrs. Potter's Questions James Bellanca

- What were you trying to do?
- What do you think went well?
- What would you do differently?
- What help do you need?

Thinking JournalS

- I wonder.....
- What puzzles me.....
- What I am curious about.....
- This reminds me of......
- What interests me here.....
- I feel....
- What would happen if.....

Metacognitive Strategy

- Why would you use.....?Where would you use....?
- How would you use....?
- How would you adapt/modify.....?

Adjusting Assignments

Decide and state a desired outcomes.

Think about the levels of your students. Where and with what are they successful?



Focus on the desired outcome and think of an activity that would challenge your students who are at grade level with prior knowledge and skills. Design that activity

Continue to focus on the same desired outcome and design an activity for students who just beginning to develop the concept or skill one more complex activity

Match your students to the appropriate leveled response based on data

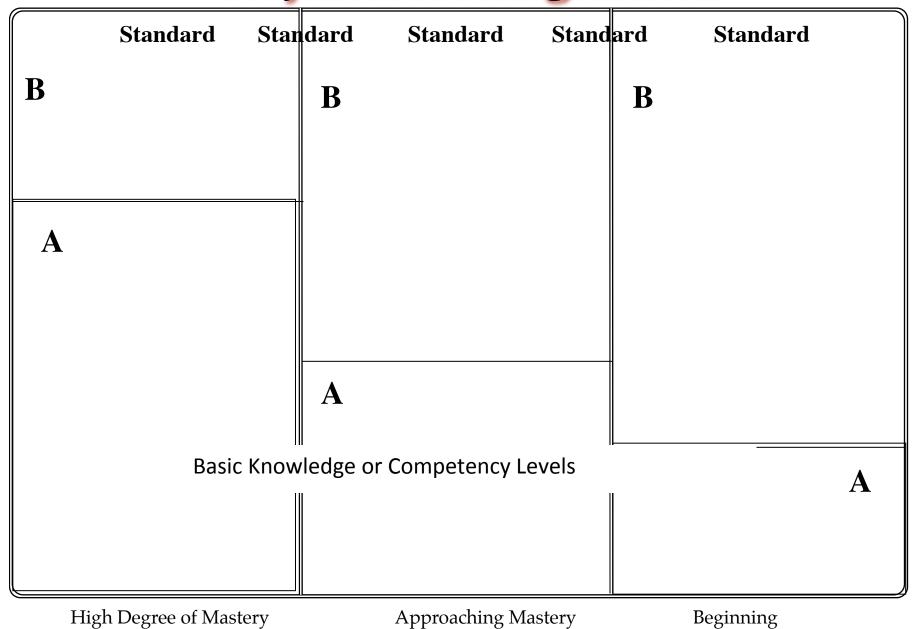
Assess students' responses for accuracy.

Determine if anyone might be successful completing a more complex response activity.

Allow them to try it!

Differentiated	How?	What do I do?
DCM	Sometimes students will exhibit a	
Content and Materials:	particular interest in some aspects	
	of the unit of study and will want to	
	go deeper into this area	
	Reading materials may be	
	differentiated based on the needs of	
	the readers. Content may be	
	accessed from a variety of materials	
	and resources from books to	
	Internet.	
DCT	Students may select from a variety	
Communication/technology:	of communication methods from	
	role-play to essay to presentation	
	depending on their needs or their	
	interests. Technology may be	
	integrated based on students' needs	
	or expertise.	
DMI	Projects, problem solving, centers	
Multiple intelligences:	may be created that reflect the	
	different multiple intelligences.	
	This allows students to find a	
	comfort area or area of strength or	
	perhaps an area that needs attention	
	and bolstering.	
DR Readiness:	Students may be grouped by	
	readiness or sometimes ability to	
	deal with a learning situation that is	
	just beyond their level of expertise.	
DI Interest/Choice:	Students are allowed to choose an	
	assignment based on their interests	
	or choice. Contracts, projects and	
	Tic Tac Toe boards are useful in	
DD D	facilitating	
DP Process:	Students may use different methods	
	to process information. Activities	
	are varied and engaging so that	
	information and skills are rehearsed	
	and applied in a variety of ways to	
	increase retention and	
	understanding.	

Adjustable Assignments



Note: This is not about number of students or time

Gregory and Chapman, 2001

Do you know your rights?

Amendment IV "The right of the people to be secure in their persons, houses, papers, and effects, against unreasonable searches and seizures, shall not be violated, and no Warrants shall issue, but upon probable cause, supported by Oath or affirmation, and particularly describing the place to be searched, and the persons or things to be seized.

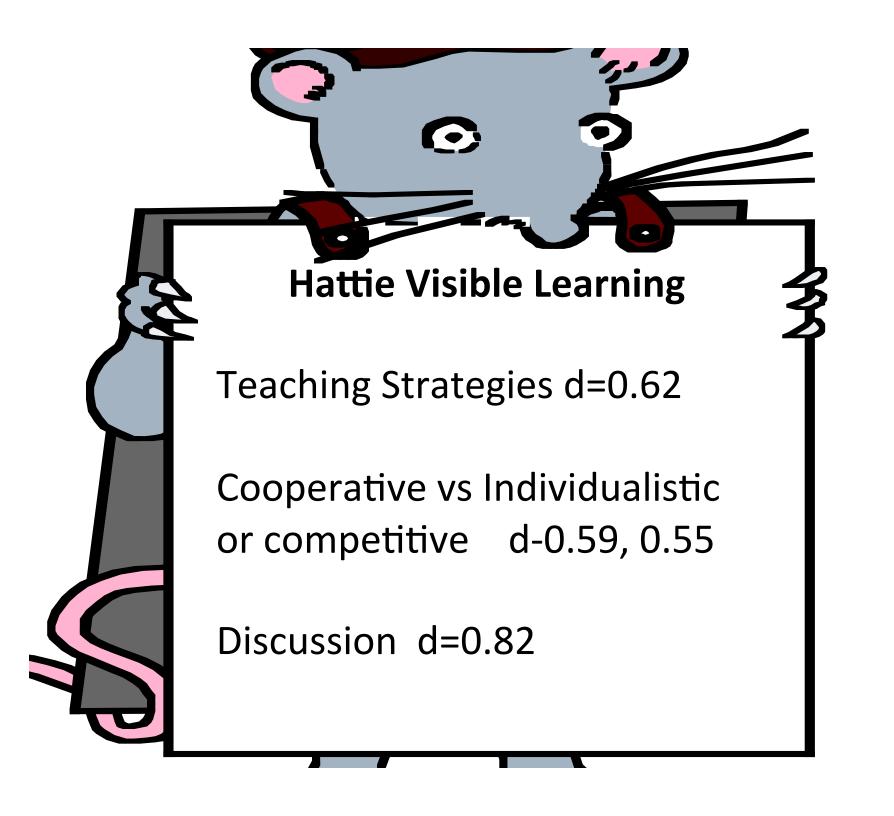
How has the new Homeland Security Act impacted the Bill of Rights? Is it an abridgement of our rights?

What do judges accept as reasonable cause for searching automobiles without a warrant?
Does this limit our rights?

What procedures does our local police department have to follow when conducting a search and seizure operation?

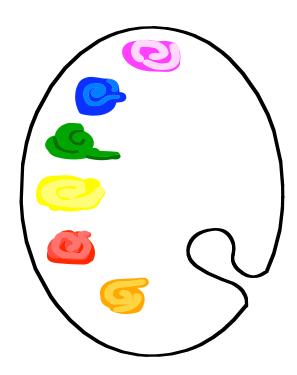
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Instructional Variety

- To thoughtful teachers, learning preferences and styles are "not a method of restrictive teaching, but a reminder of the benefits of explicit mixed modality pedagogy."
- (John Geake, 2009)

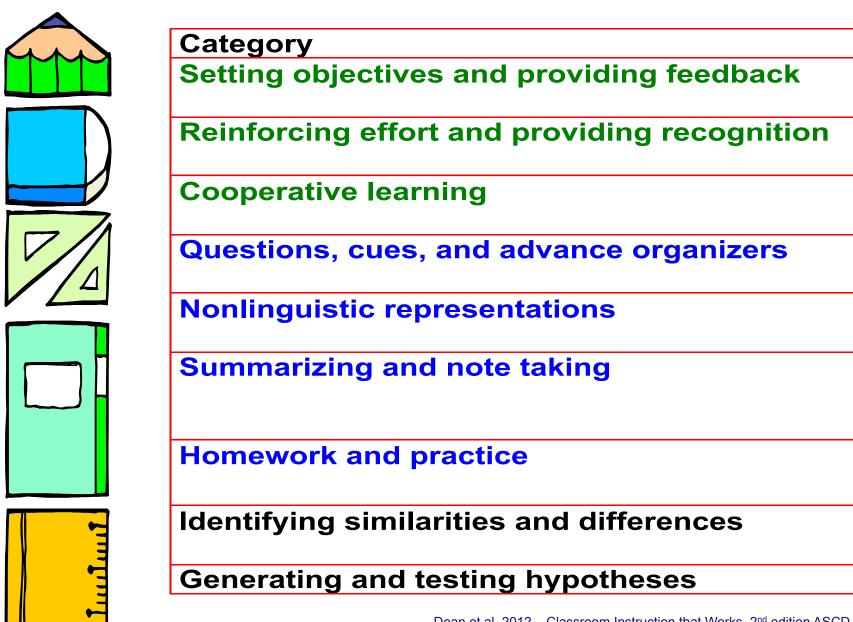


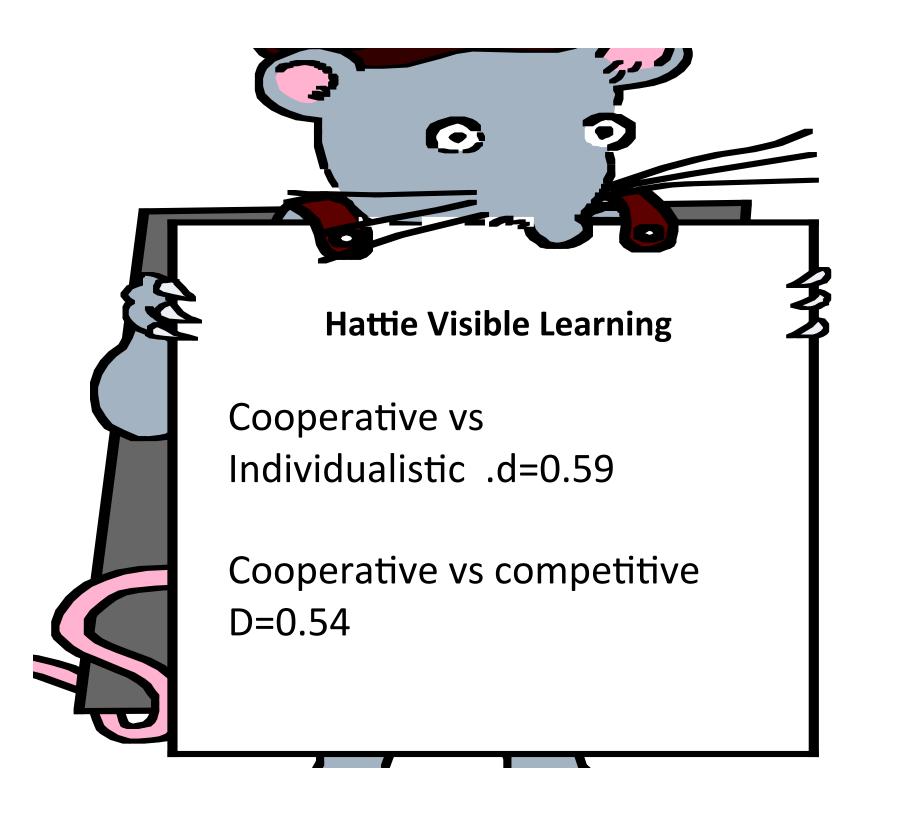
Teach me in the ways I learn best!

Students may grasp new concepts more easily if they have opportunities to process the information in a way that makes sense to them - and comes more easily to them.



Classroom Instruction That Works: Best Practices

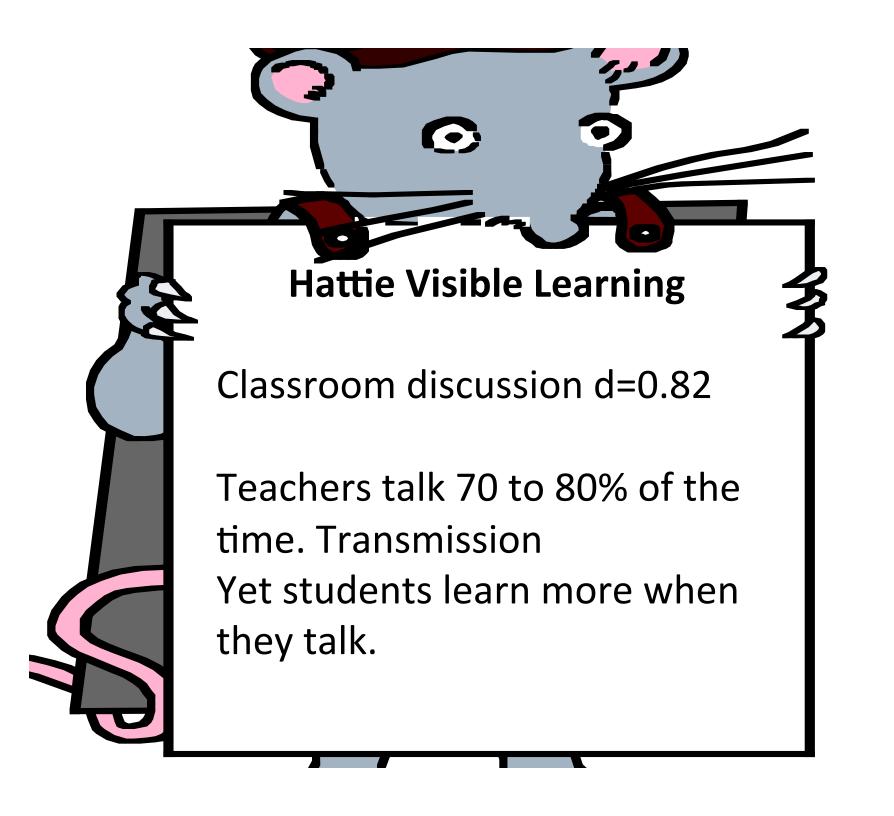




T.A.P.S. Suggestions for Use

Page 144

Total Whole class instruction All students doing the same thing	Pre-assessment Presenting new information Modeling new skills Guest speaker Viewing a video Using a jigsaw strategy Guest speaker Text book(s) assignment
Alone All students working alone may have a variety of tasks based on interest or readiness	Pre-assessment Journal entry Portfolio assessing Self-assessment Independent study Note taking and summarizing Reflection Tickets out
Paired All students have a partner Random selection (card, color, etc) Teacher selection Students choose a partner Task or interest oriented	Brainstorming Checking homework Checking for understanding Processing information Peer editing Peer evaluation Researching Interest in similar topic Planning for homework
Small groups Homogeneous for skill development Heterogeneous for cooperative groups Random or structured by teacher or students Interest or task oriented	Problem solving Group projects Learning centers Cooperative group learning assignments Portfolio conferences Group investigation Carousel brainstorming Graffiti brainstorming



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