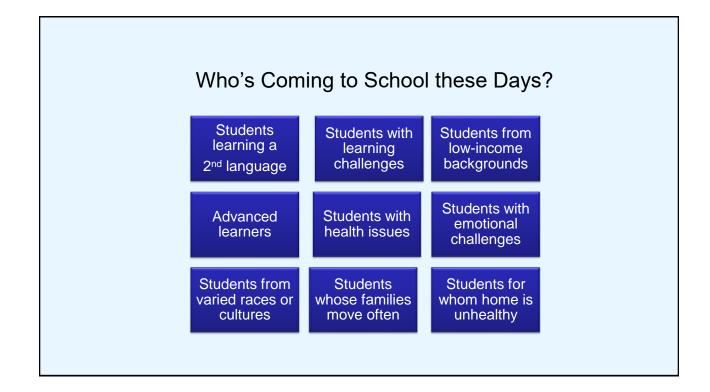


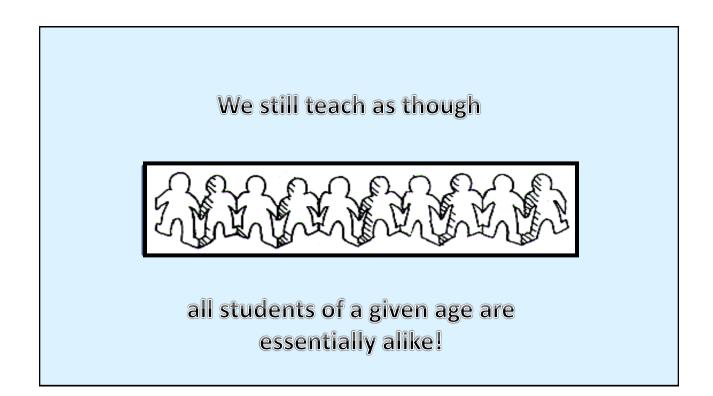
Differentiating Instruction: What, Why, & How

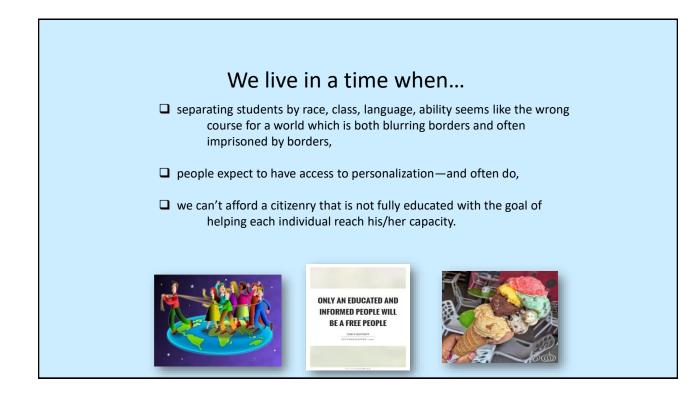
DI Asia Conference, 2018 Singapore September 6-7, 2018

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In Fact, Indications are that:

Most teachers are aware of students' learning differences.

Most teachers feel it is beneficial to address those differences in instructional planning and delivery.

Few teachers do those things systematically.

Of those who do, most differentiate "reactively," improvisationally, and/or by assigning students more work if they are advanced and less work if they are struggling.

In schools where differentiation is implemented consistently and with fidelity, student outcomes are strong across groups.

So What is Differentiation?

Definition from the National Center on Accessing the General Curriculum

To differentiate instruction is to recognize students' varying background knowledge, readiness, language, [culture], preferences in learning and interests; and to react responsively.

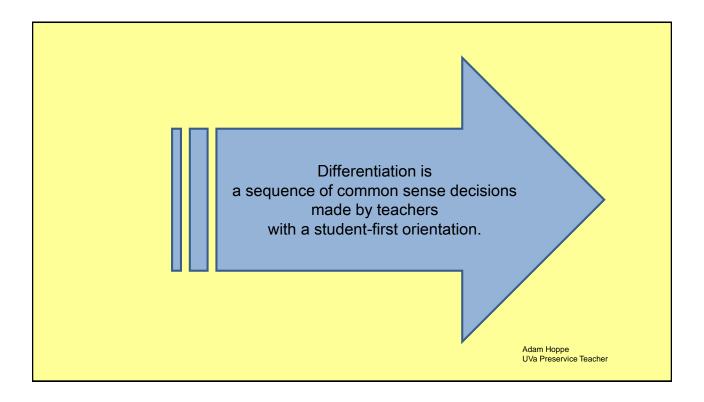
Differentiated instruction is a process of teaching and learning for students of differing abilities in the same class. The intent of differentiating instruction is to maximize each student's growth and individual success by meeting student where he or she is, and assisting in the learning process.

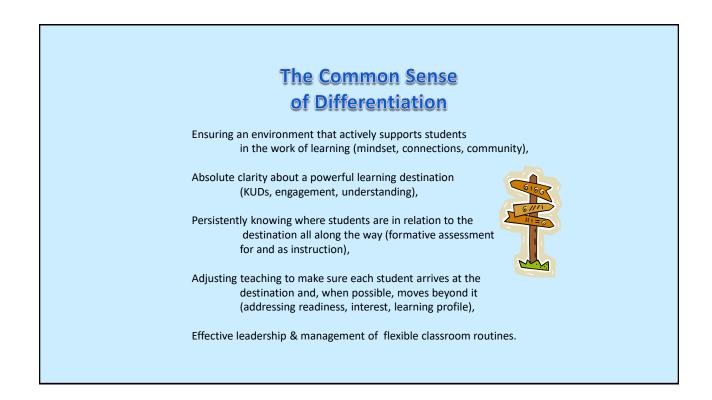
National Center on Accessing the General Curriculum cited in Hall, Strangman, & Meyer (2011). Differentiated instruction and implications for UDL implementation. Retrieved from National Center Accessing the General Curriculum: http://aim.cast.org/learn/historyarchive/backgroundpapers/differentiated

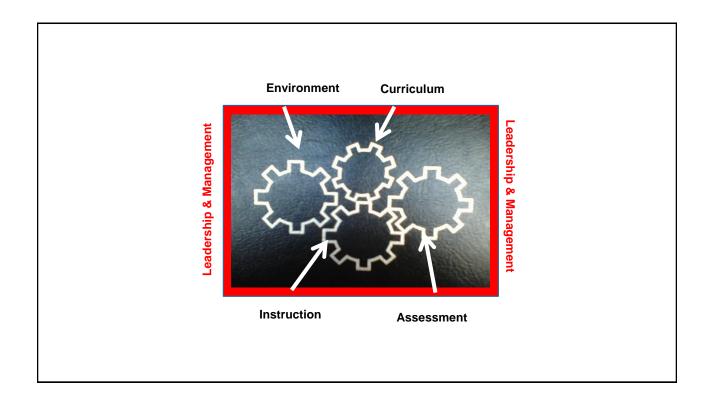
DIFFERENTIATION IS THINKING ABOUT AND RESPONDING TO THE VARIED NEEDS OF STUDENTS IN A PARTICULAR CLASSROOM

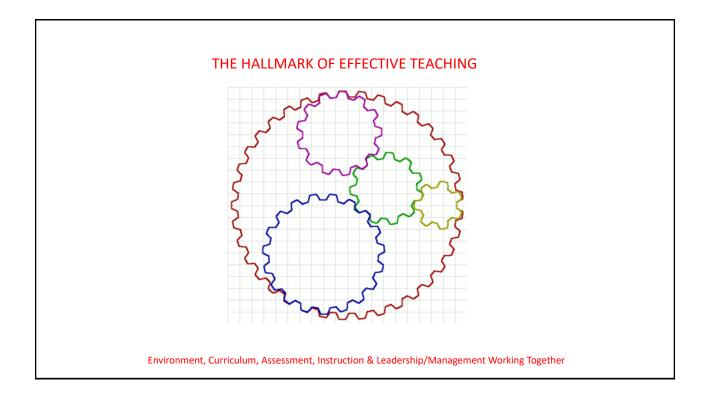


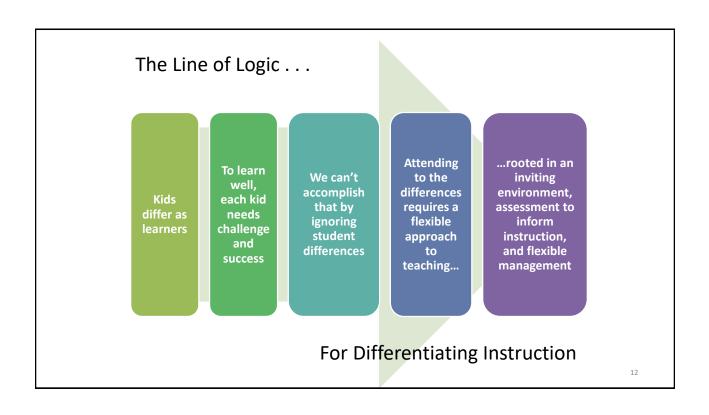
TO MAXIMIZE THEIR LEARNING AND DEVELOPMENT

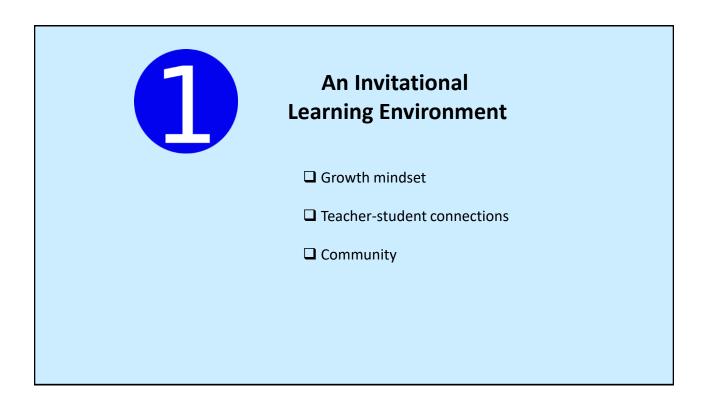












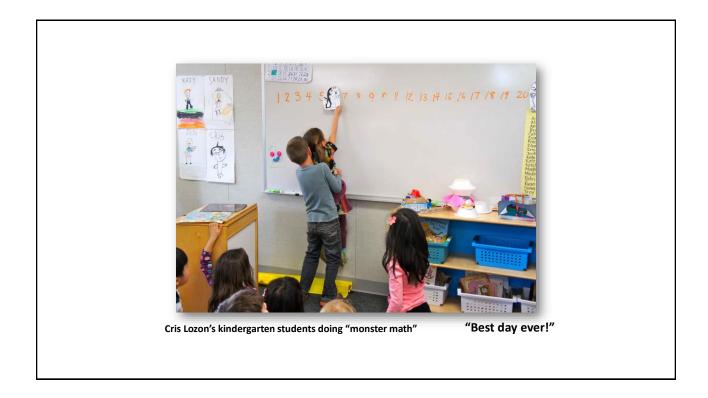


"An average student with a teacher whose teacherstudent interactions scored 1 standard deviation below the mean in Emotional Support would, on average, place in the 41st percentile in end-of-year tests.

The same student with a teacher whose interactions scored 1 standard deviation above the mean in Emotional Support would, on average, place in the 59th percentile in end-of-year tests."

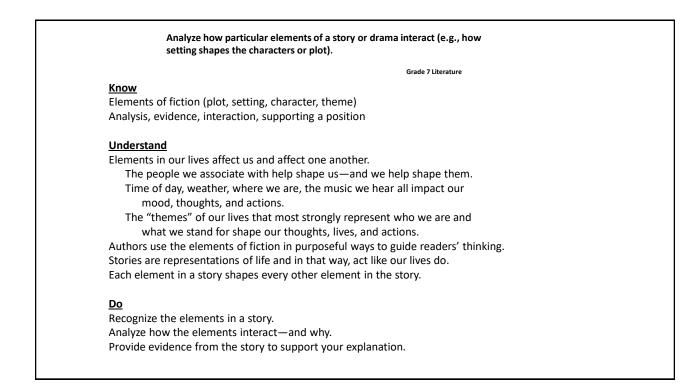


Allen, J., Gregory, A., Mikami, J., Hamre, B., & Pianta, R. Predicting Adolescent Achievement with the CLASS-S Observation Tool. A CASTL Research Brief. University of Virginia, Curry School of Education

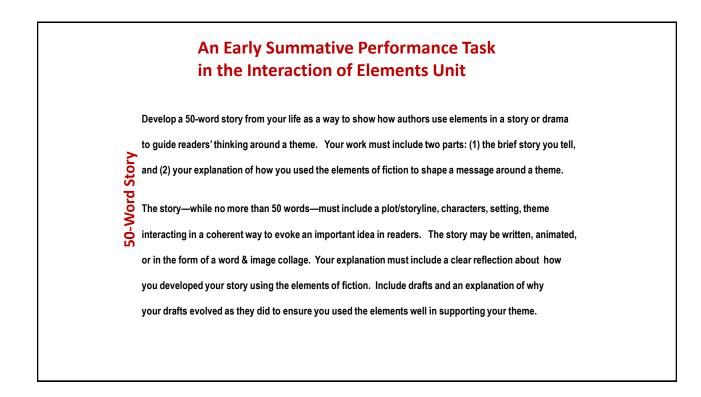


Research Findings

A Quality Curriculum that Focuses & Energizes Learning
Clear, comprehensive learning goals (KUDs)*
A plan to engage learners
Focus on understanding
"Teaching Up"
[•] KUD is the abbreviation for what students should <u>K</u> now, <u>U</u> nderstand, & be able to D o as the result of a segment of learning



	Whole Class	Differentiated
"Interaction of Elements in Fiction" Unit	Discussion on elements in our lives and how they interact.	
	Introduction to unit. Review of elements of literature using matching exercise in which some students have cards w/ element names, some have definitions, some have examples from stories students have read in common. Discussion of things we analyze in our daily lives and how we go about it—create a set of steps in analysis.	
		Students work in quads or triads to analyze a story to identify story elements and analyze how they work together. Group size, story choice, and graphic organizer used to guide work will vary based on pre-assessment results. Teacher will meet with small groups throughout the class period.
Early Learning Sequence in the $^{\circ}$	Whole class review of theme, proposing themes in lives of famous people, analyzing how they arrived at those themes.	Practice with themes in brief "stories" –Stories vary in mode, complexity, support. Varied organizers. Identify and support your conclusion—Identify and show how the elements contribute to a theme.
Early Learn		Identify and demonstrate how the elements contribute Develop a story in which elements interact to point to a theme—Varied directions, organizers, supports, modes of expression.



On the pier, fishing with my dad, the sun and salt made me powerful.

I reeled in my line with a swagger, a sardine-like fish on the end.

My runt brother caught a monster.

My dad took his picture.

I got a sunburn.

Big brother dethroned again.

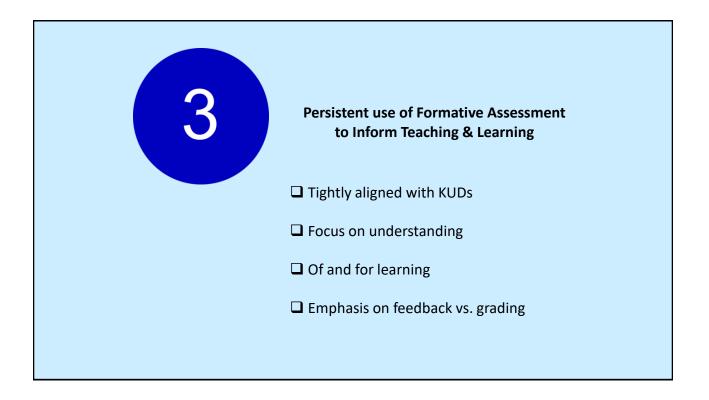


My first two drafts were way too long. My idea wasn't clear enough to me so I had to think some more.

I chose a sunny day with salt air because that always makes me feel strong, but sometimes that can go to your head and sun can burn you. I think that happens when we feel like we are such a big deal that we don't have to pay attention to the rules of nature.

My little brother was a good protagonist. I should be able to win pretty much any contest with him because I am older and wiser. Mostly, though, he wins because he's little and cute and get's everybody's attention. But sometimes, like in this story, he wins because I get too full of myself, and it's kind of like nature burns me to keep me in my place.



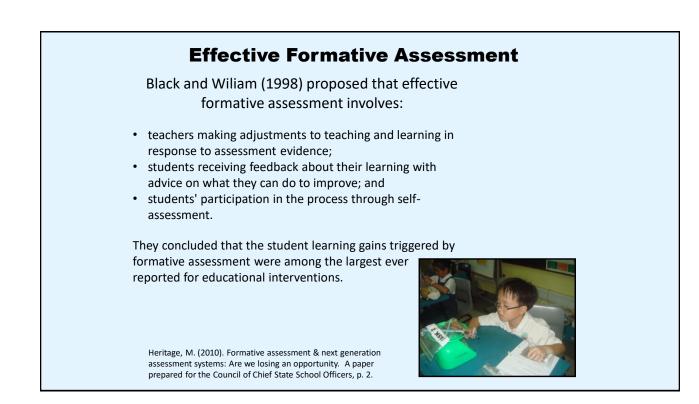


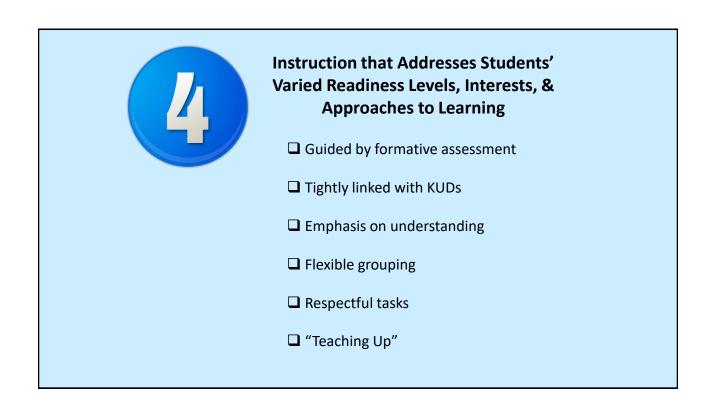
My Favorite No



https://www.teachingchannel.org/videos/class-warm-up-routine

6min Gr8 math







A Few High School Supports —including in advanced subjects

- Study Squads
- Physics Posse
- Collaborative Exam
- Lunch Hours
- Flipped Sessions

"In my kindergarten class, I introduce technology during small group rotations. The day begins with mini-lessons for the whole class, introducing new content and reviewing different skills.

After this, we break off into small group station work. The small groups enable me to differentiate instruction and better meet the needs of individual students...

This model has been very effective for my students. They are more engaged with activities and take ownership of their learning. Working alongside peers also strengthens communication and social skills.

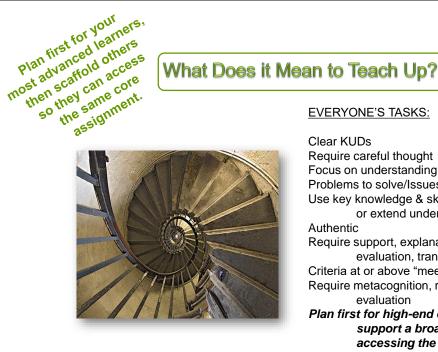
The mix of teacher instruction and high quality digital content has brought together the best of both worlds." Tracey Dunn

ASCD Smartbrief (6-24-15) http://smartblogs.com/education/2015/06/23/tech-tip-technology-supportsdifferentiated-instruction-in-the-elementary-classroom/?utm_source=brief



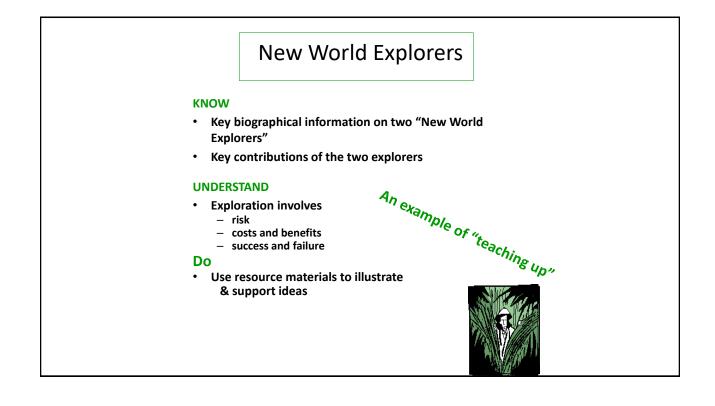
Tracey Dunn's Kindergarten Station Rotation			
Teacher meets with students based on individual/small group needs (e.g. reading intervention, extension, vocab. development, introducing new apps/processes)	Station 1 Teacher-Guided Instruction	Station 2 Independent/ Peer Practice	Students work independently, in pairs, or small groups on reinforcing skills via "paper" games or games on iPad
Students use iPads with apps such as Lexia, , MobyMax, Raz- Kids to focus on specific skills development—or with apps such as Educreations or Book Creator to develop projects	Station 3 iPads	Station 4 Writing Wall or or iPads	Students use a Plexiglass "writing wall" or technology to reinforce writing skills, (e.g., letters, numbers, number words, sentence copying, or writing ideas
	Tracey Dunn is a kindergarten teacher at Hc	pkins Elementary in Mentor, Ohio	

An Example of Differentiation based on Student Readiness Middle School Social Studies "Teaching Up"			
Readiness	Teaching Up		
Readiness is a student's proximity to specified learning goals. It is not a synonym for ability or capacity.	Teaching Up is a response to readiness differences. It is based on the assumption that the vast majority of students should have access to the richest curriculum a school can offer.		
It should be variable across goals, not fixed or seen as fixed.	It also works from the premise that students get smarter when we teach them like they're smart.		
It is one student characteristic on the basis of which teachers differentiate.	A teacher begins planning for advanced students and differentiates by providing scaffolding that enables other students to work successfully		
It is determined based largely on pre- assessment, on-going (formative assessment, & teacher observation.	toward those complex goals.		

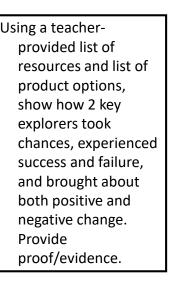


EVERYONE'S TASKS:

Clear KUDs Require careful thought Focus on understanding Problems to solve/Issues to address Use key knowledge & skills to explore, or extend understandings Authentic Require support, explanation, application, evaluation, transfer Criteria at or above "meets expectations" Require metacognition, reflection, planning, evaluation Plan first for high-end challenge, then scaffold to support a broad range of students in accessing the complexity

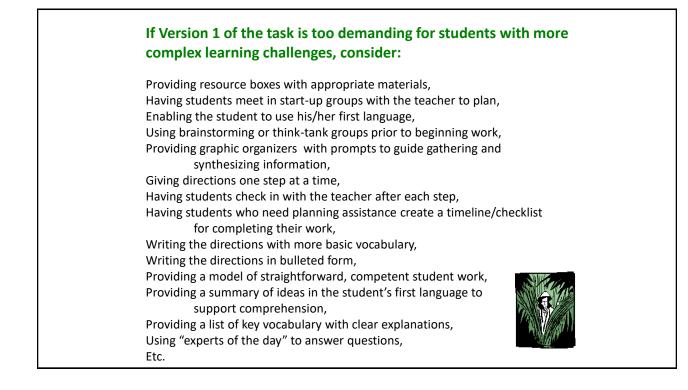


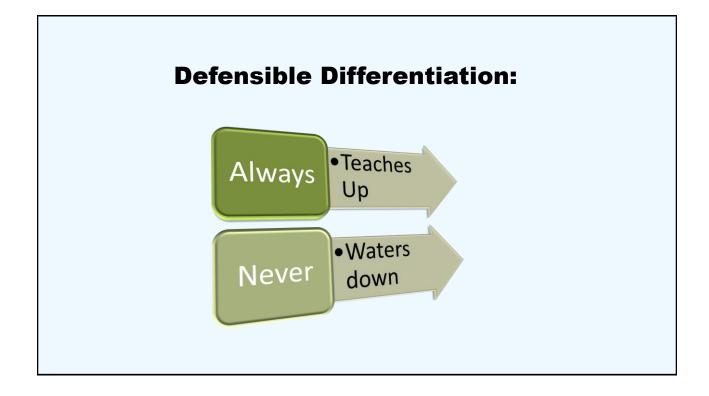
New World Explorers





Using reliable and defensible research, develop a way to show how New World Explorers were paradoxes. Include and go beyond the unit principles.



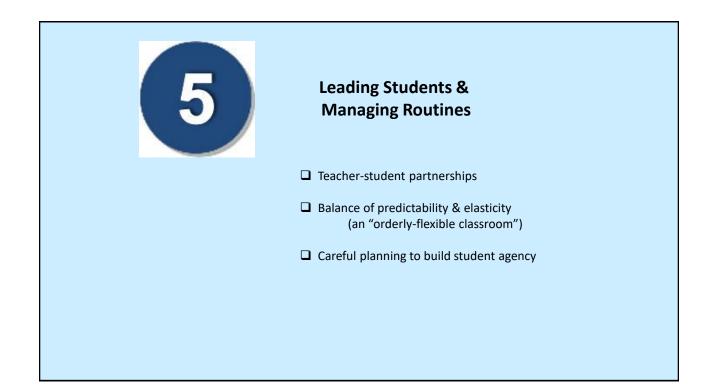


Students do not simply store knowledge they hear; each student learns in a particular, personal way. Each child gives personal shape to his or her understanding and to the way that he or she comes to understand things. The teacher may be teaching a class of 35 students; but it is always important to remember that all learning is ultimately

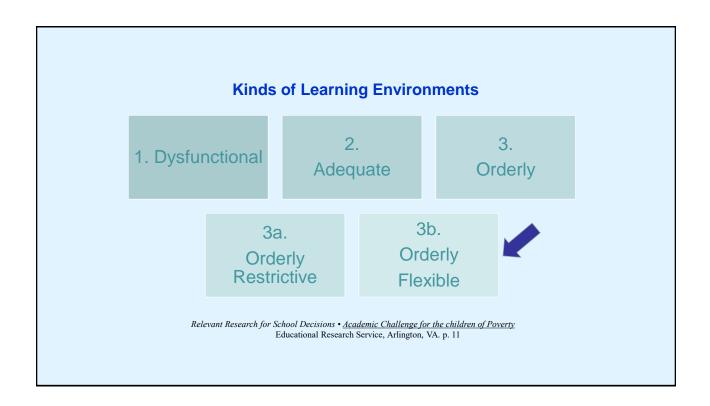
an individual process.

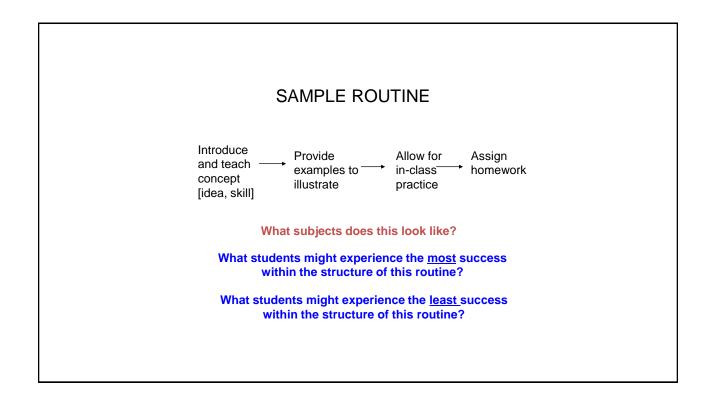


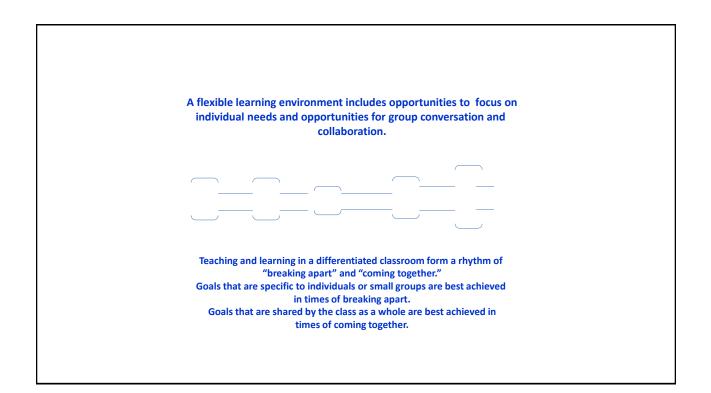
Adapted slightly from van Manen, M. (1991). *The tact of teaching: Toward a pedagogy of thoughtfulness*. Albany, NY: State University of New York, p. 77.













Much (but not all) differentiation occurs when students take the off-ramps.

This Metaphor Might Help...

As you plan, think about what everyone MUST do in common. Everyone stays on the main highway.

Then, think about points in that unit where you know students are likely to encounter difficulties—or need additional challenge—or might benefit from exploring an interest-based aspect of the topic.

Build in exit ramps for those times. Later, you'll be comfortable creating spur-of-the-moment exit ramps, too. A foundational premise of differentiation is that the successful teacher sees students individually, and not as "a batch."

Every one of them brings far more to the table of learning than they are aware of, or than I am aware of.

Every one of them needs me in profound and personal ways.

Every one of them needs me differently.

I cannot contribute significantly to their success

by seeing them alike,

by greeting them alike,

by teaching them alike.

Good teaching is a profoundly personal endeavor.



