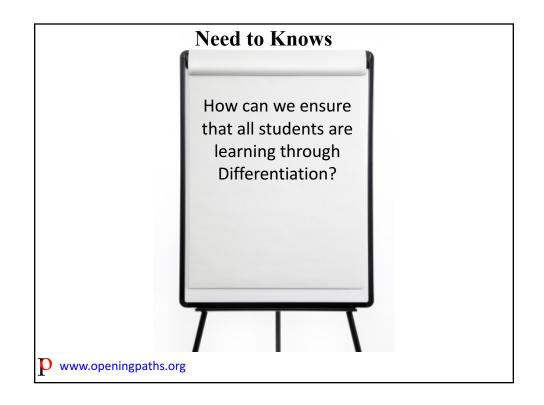
## Differentiated Instruction: Taking the Journey

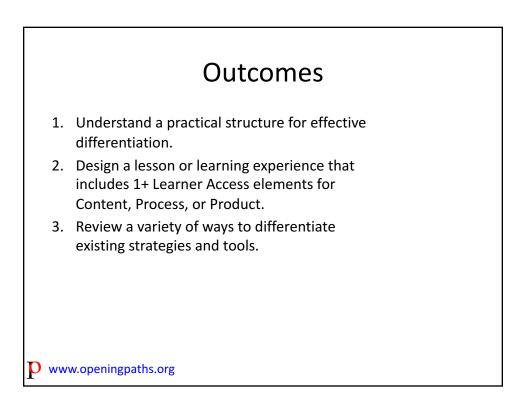
Book: "So All Can Learn: A Practical Guide to Differentiation" (February 2017) Register for preorder announcements: http://bit.ly/booklaunch2017

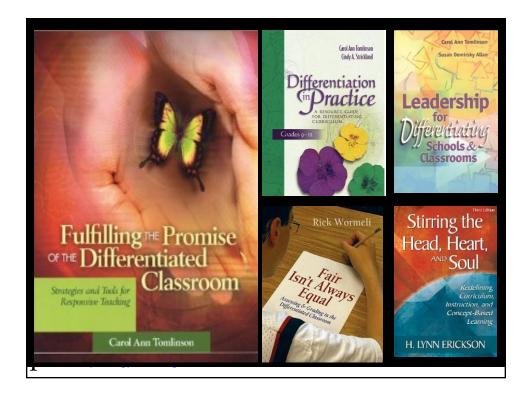
John McCarthy, Ed.S. jmccarthy@openingpaths.org www.openingpaths.org Twitter: <u>@jmccarthyeds</u> 734-330-1421 www.openingpaths.org

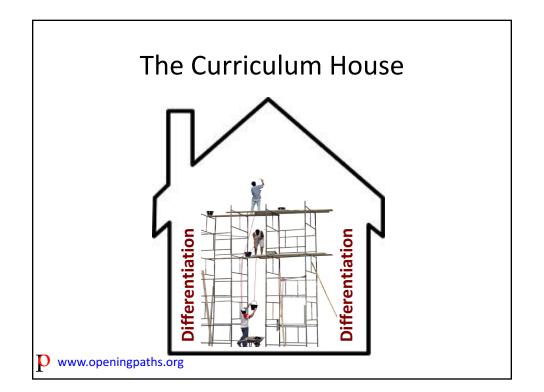
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John McCarthy, Ed.S. Follow on Twitter: @Jmccarthyeds Book: "So All Can Learn: A Practical Guide to Differentiation" (February 2017) Register for preorder announcements: http://bit.ly/booklaunch2017 • Teacher • Education Consultant • Writer for Edutopia.org • Co-Facilitator for #DI4ALL 1<sup>st</sup> & 3<sup>rd</sup> Tuesdays @ 8 pm EST Details at www.di4all.org • Published articles: http://openingpaths.org/blog/publications/ • Resources: http://openingpaths.org/blog/resources/









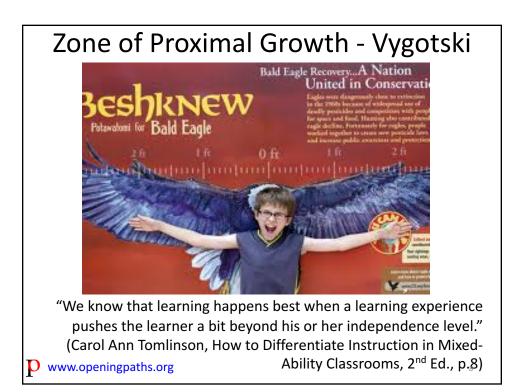
## Starting Place for Differentiation

"Differentiation is making sure that the right students get the right learning tasks at the right time. Once you have a sense of what each student holds as 'given' or 'known' and what he or she needs in order to learn, differentiation is no longer an option; it is an obvious response."

Assessment as Learning: Using Classroom Assessment to Maximize Student Learning Lorna M. Earl, Corwin Press, Inc. 2003 – pp. 86-87



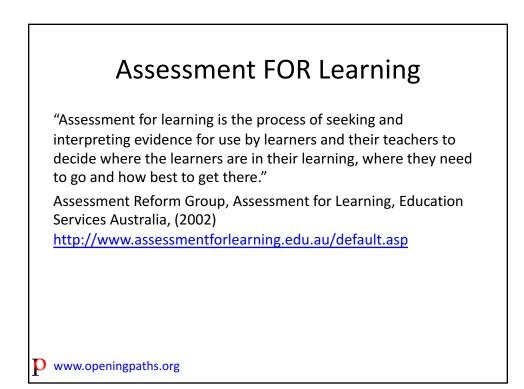
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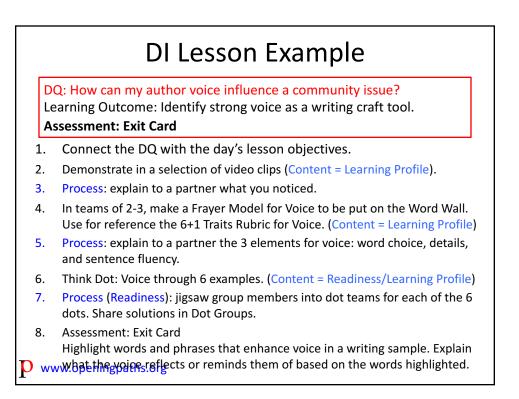




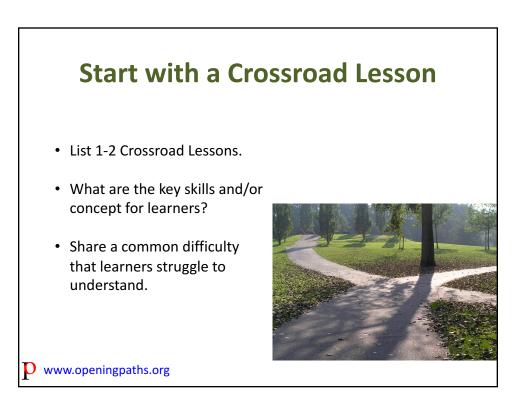


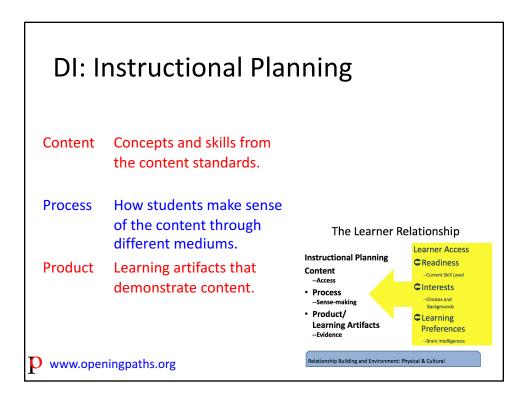




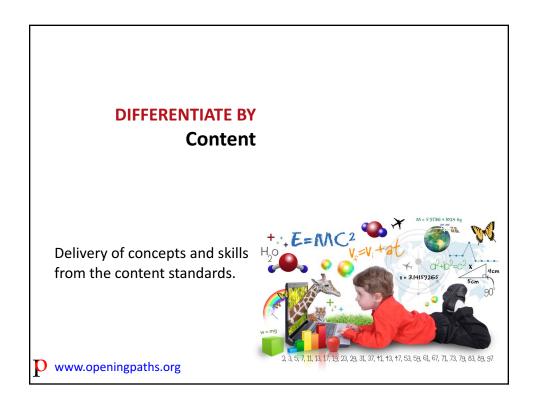


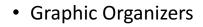






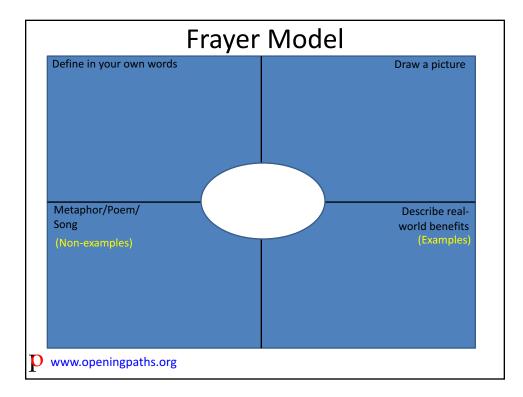
DI: Lear	ner Access		
Readiness	Students learn at different rates. Scaffold content.		
Interests	Content is relevant to what students like to do, that they feel is important.	The Learner R	Learner Access
Learning Preferences	How learners think and process content.	Content Access • Process Sense-making • Product/ Learning Artifacts Evidence	Carrent Skill Level Current Skill Level Choices and Backgrounds Clearning Preferences Brain intelligences
${f p}$ www.opening	paths.org	Relationship Building and Environment:	Physical & Cultural

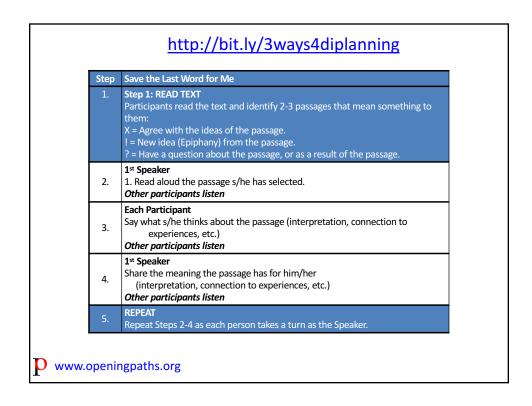




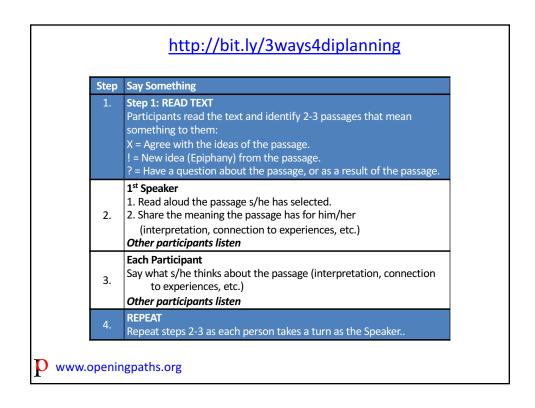
- Research
- Medias: video, podcasts, images, charts
- Experts
- Discussions
- Jigsaws
- Collaborative Groups

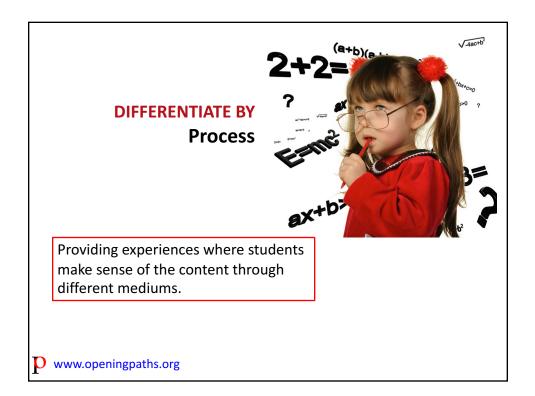
0 www.openingpaths.org

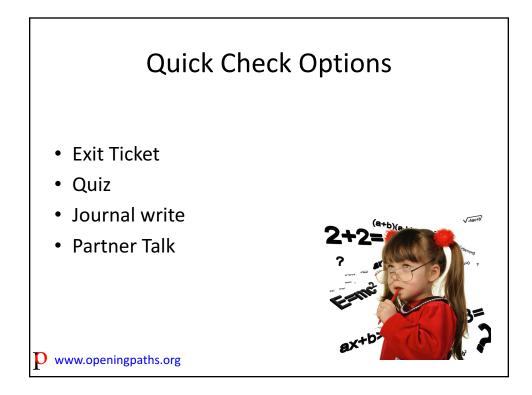


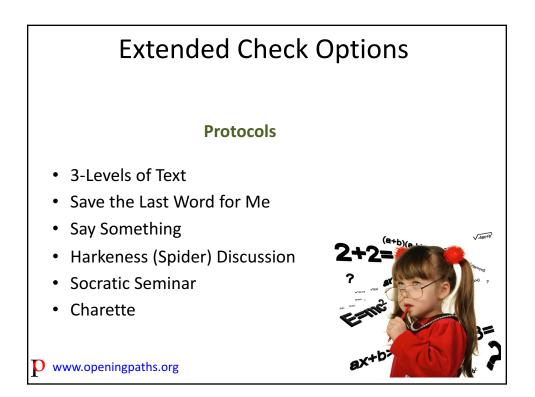


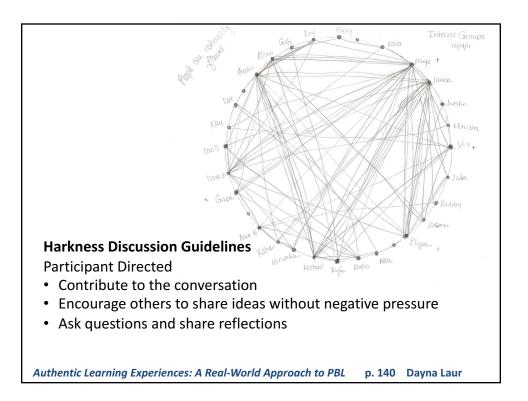
Three Levels of Text	TIME
READ TEXT Participants read the text and identify 2-3 passages that mean something to them: X = Agree with the ideas of the passage. ! = New idea (Epiphany) from the passage. ? = Have a question about the passage, or as a result of the passage.	5 min
LEVEL 1 Read aloud the passage s/he has selected.	
LEVEL 2 Say what s/he thinks about the passage (interpretation, connection to experiences, etc.)	3 min
<b>LEVEL 3</b> Say what s/he sees as the implications for his/her work	
GROUP RESPONSE The group reflects on what has been said	2 min
REPEAT Repeat Levels 1-3 and group response for each participant.	15 min





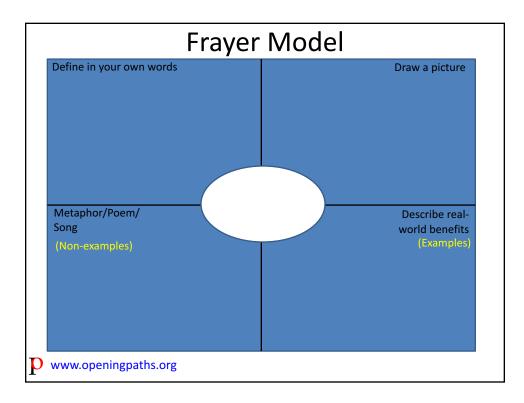




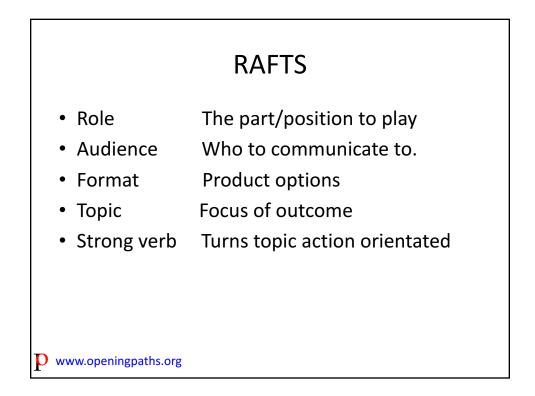


	Charette				
	Step	Directions	Time		
	1.	Author shares description of work, driving question, and content standard(s) focus. Partner(s) listens and takes notes.	3 min.		
	2.	Author shares focus question and related context. Partner(s) listens.	1 min.		
	3.	Partner(s) shares suggestions & thoughts regarding the focus question. Author listens and takes notes.	2 min.		
	4.	Author and Partner(s) debrief the ideas. The author may ask additional questions for feedback.	2 min.		
C	www.ope	The Practice of Authentic PLCs: A Guide to Effective Teacher Teams By D http://www.amazon.com/Practice-Authentic-PLCs-Effective-Teacher, ningpaths.org			

THREE LEVELS OF TEXT	тім
READ TEXT Participants read the text and identify passages they feel may have important implications for their work.	5 mii
LEVEL 1 Read aloud the passage s/he has selected.	
LEVEL 2 Say what s/he thinks about the passage (interpretation, connection to experiences, etc.)	3 mii
LEVEL 3 Say what s/he sees as the implications for his/her work	
GROUP RESPONSE The group reflects on what has been said	2 mii
<b>REPEAT</b> Repeat Levels 1-3 and group response for each participant.	15 mi
TOTAL	20 mi

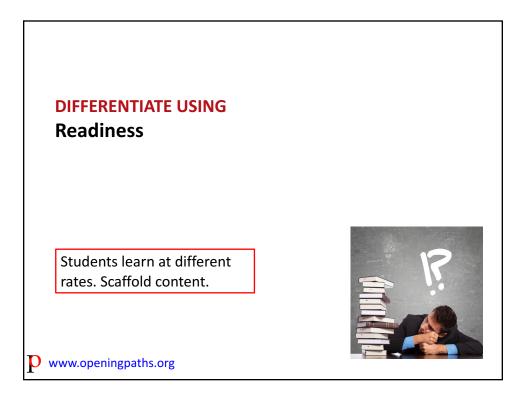


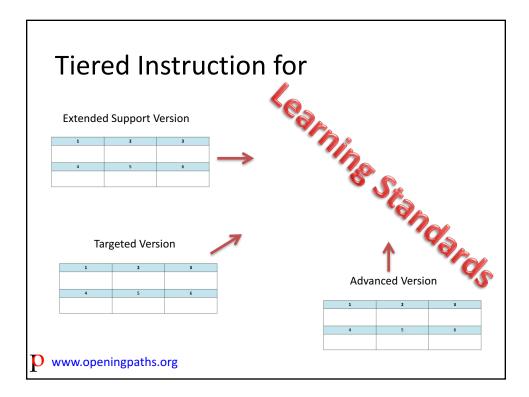




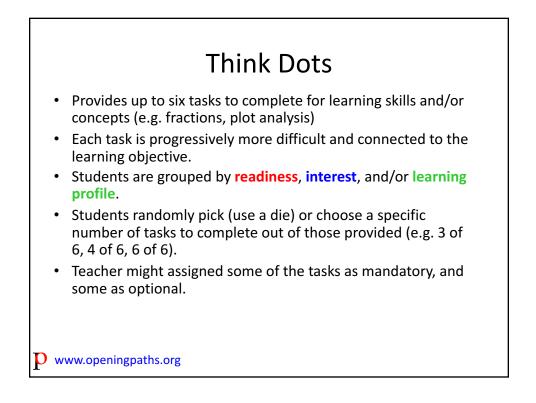
Role	Audience	Format	Task
Raindrop	Clouds	Captioned picture	Travel the cycles with me.
Little Red	Grandma	Script	Don't talk to strangers
Positive Number	Negative Number	Love Letter	I'm attracted to you
Juliette Capulet	Bella Swan	Skype/Video	Learn from my choices

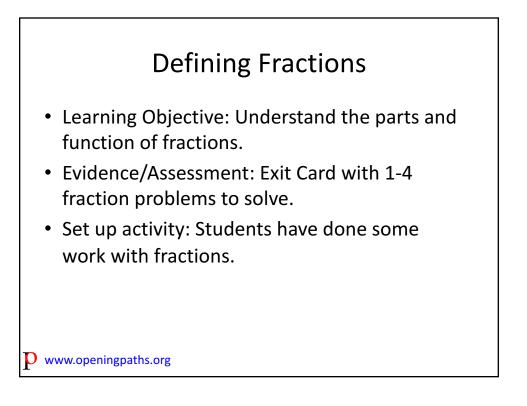
Romeo Montague	Othello	Speech	
		Speech	Check your facts before acting
uliette Capulet	Bella Swan	Skype/Video	Learn from my choices
Create your own			



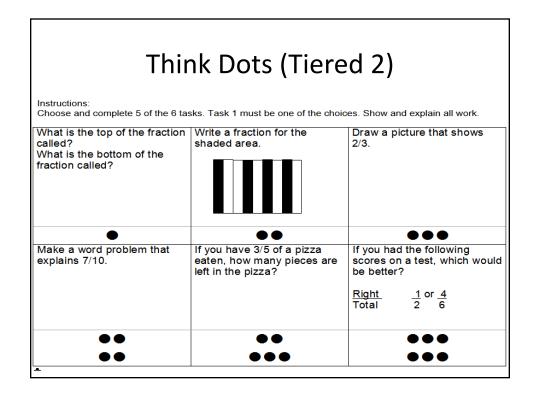


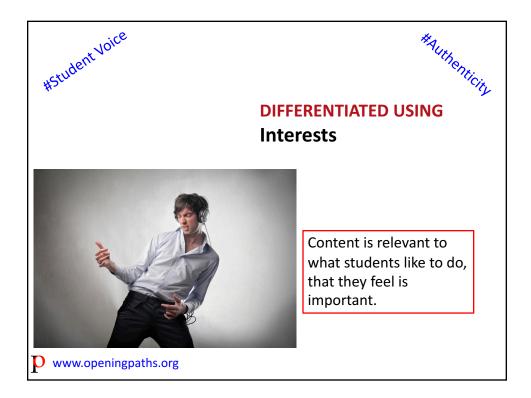
Think Dot Activity Debrief					
1	2	3			
4	5	6			
<ul> <li>Address readiness</li> </ul>	<ul> <li>Choice driven</li> <li>Learning Profile rich</li> <li>Address readiness through Tiering</li> <li>Used for Content, Process, and/or Product</li> <li>Collaborative tool</li> </ul>				





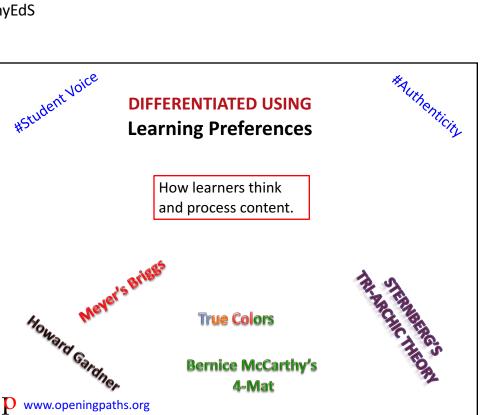
Thir	nk Dots (Tiere	ed 1)
Instructions: Complete 4 of the 6 tasks. Task 1 a • What is the top # of the fraction called?	and 2 must be completed. Show and Name 2 different fractions that could represent the	Draw a picture that shows
<ul> <li>What is the bottom # of the fraction called?</li> <li>Where do the numbers come from that go in those two places?</li> </ul>	picture.	$\frac{1}{3} + \frac{2}{3}$
•	••	•••
Make a word problem that explains 3/8	If 3/8 of the race is bicycling, 1/8 is swimming, how much of the race is left to run?	If you had the following scores on a test, which one would be better? <u>Right</u> <u>1</u> or <u>4</u> Total <u>2</u> 6
••	••	•••
L .		

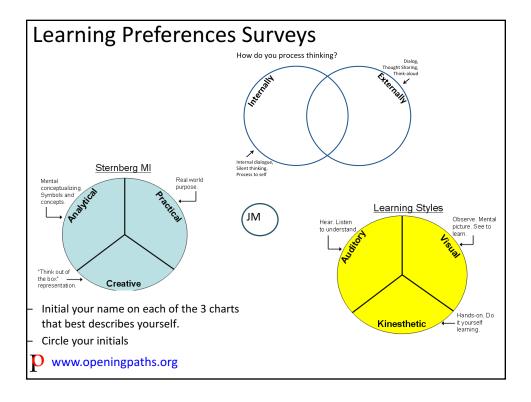


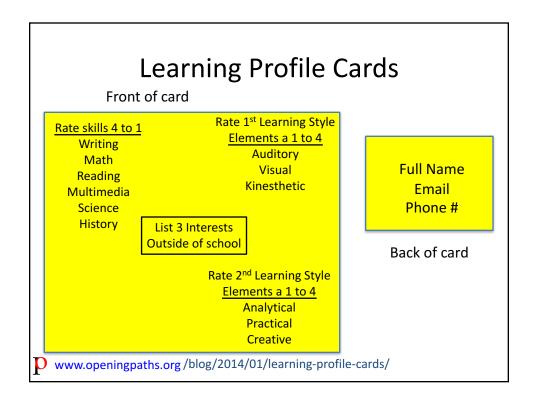


Role	Audience	Format	Торіс
Red	Police	Deposition or plot chart	Tell what really happened.
Grandma	Red	1-2 minute conversation (script)	Save lives. Don't talk to strangers.
Wolf	Defense Attorney	1-2 minute conversation (script)	Help me! I was framed!
Neighbor	РТО	Flyer	Strangers & Red: Beware! (A Cautionary Tale)
Red	Friends	Obituary	Confess: A lesson I did not learn
Wolf	Talk Show Host	Memoir Letter	Save me! I'm misunderstood.

Role	Audience	Format	Торіс			
Red	Police		Tell what really happened.			
Grandma	Red		Save lives. Don't talk to strangers.			
Wolf		1-2 minute conversation (script)	Help me! I was framed!			
Neighbor		Flyer	Strangers & Red: Beware! (A Cautionary Tale)			
Red		Obituary				
Propose your own						
Excerpt fro	m So All Can Lear	n: A Practical Guide f	or Differentiation (February 2017)			
www.opening	gpaths.org		Excerpt from So All Can Learn: A Practical Guide for Differentiation (February 2017) www.openingpaths.org			

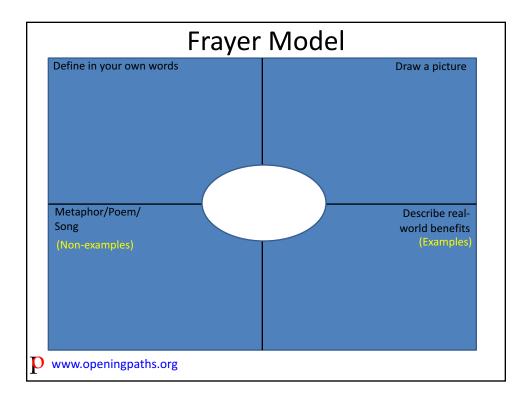






Thir	nk Dots (Tiere	ed 1)
<ul> <li>Instructions: Complete 4 of the 6 tasks. Task 1 a</li> <li>What is the top # of the fraction called?</li> <li>What is the bottom # of the fraction called?</li> <li>Where do the numbers come from that go in those two places?</li> </ul>	and 2 must be completed. Show and Name 2 different fractions that could represent the picture.	explain all work. Draw a picture that shows $\frac{1}{3} + \frac{2}{3}$
•	••	•••
Make a word problem that explains 3/8	If 3/8 of the race is bicycling, 1/8 is swimming, how much of the race is left to run?	If you had the following scores on a test, which one would be better? <u>Right 1</u> or <u>4</u> Total 2 6
••	••	•••

Instructions:	ink Dots (Tiere	-
Choose and complete 5 of the 6 What is the top of the fractio called? What is the bottom of the fraction called?	tasks. Task 1 must be one of the choins in Write a fraction for the shaded area.	ices. Show and explain all work. Draw a picture that shows 2/3.
Make a word problem that explains 7/10.	If you have 3/5 of a pizza eaten, how many pieces are left in the pizza?	●●●       If you had the following scores on a test, which would be better?       Right Total     1/2 or 4/6



Comparison Matrix	Readiness	Interests	Learning Profiles
Strategy by: <u>Marzono, Robert</u> . <u>Classroom Instruction</u> <u>That Works</u> . 2004 <u>ASCD   TeacherTube</u>	Structure learning from: •Part to whole: segment into parts to digest •Simple to complex •Dependence to Interdependence	•Learning profile •Hobbies & Pursuits	How a student approaches concepts from their strengths Lens for making sense and communicating through: •Multiple intelligence •Brain-based
information made	Leveled reading/cognitive materials     Graphic Organizer: help see content in segments     Centers: Assign content & directions based on skill level     "Say Something" or "Last Word" for readings	<ul> <li>Present through multi-media</li> <li>Centers: Choice of what content to study or study options within a center</li> <li>Connect to student lives/world beyond classroom (Context)</li> </ul>	
How can students digest content and make into their own?	Tiered activities at needed levels     Centers: Provide skill     appropriate tasks for each group     of learners     RAFTS: Options are simple to     complex	Brain-based •Centers: Students choose options for how they will do the task •Group by like-interests	using different learning styles. Work is assigned or self-selected •RAFTS: Format options are
Product How would students distill what they learned by demo or performance?	•Tiered and addresses same outcomes •Project/problem-based learning •RAFTS •Rubric-based activities •Design something •Performance Task	•Built in options with connection to interests. •Project/problem-based learning •RAFTS •Rubric-based activities	Presentation formats





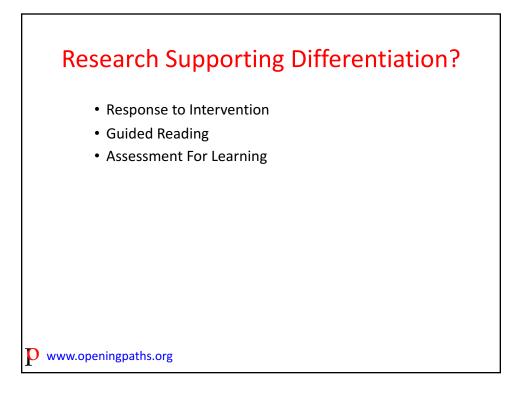
R Redefinition	tech allows for creation of new tasks previously inconceivable	integrated movies, hot links, software, apps,	Skype with experts, compare, combine results via wikis and blogs, publish world wide online
M Modification	tech allows for significant lesson redesign	integrated email graphs, images spreadsheets	spreadsheets, graphs email with others, redesign lab, hand in
A Augmentation	tech is a tool substitute with some improvement	word processing with spell check, cut and paste	grammar. spell check, cut. paste, print, hand in
S Substitution	tech is a tool substitute with no functional change	word processor used as a typewriter	word process lab report, print out, hand in

	tools for supporting differentiation cators and learners. Also please no		it needs. Include a description. This Contact via email or Twitter.	This website is:	bit.ly/di4allonlinetools	Join chat sessions via Twitter: #DI4ALL
	Contact: John McCarthy	jmccarthyeds@gmail.com	https://twitter.com/JMcCarthyEdS	Differentiated Resources:	http://openingpaths.org/blog/resources/di/	1st & 3rd Mondays @ 8 p.m. ES
Resource	URL	Tool Type	Assessments	Content Differentiation	Process Differentiation	Product Differentiation
Padlet	http://padlet.com/	Collaboration Virtual Boards			Students share ideas and relevant content with each other for use in their ongoing work.	Share links to completed products for publication.
Storm Board	https://www.stormboard.co	Collaboration Virtual Boards				
Storify	https://storify.com	Curated Content		Compile content links to resources into	Students create their own resource list using these tools. Storify & paper. If offer contact info to the author/expert of the chosen content for follow-up questions and support.	Students create their own resource or message guide using these tools to meet the needs of a targeted audience.
Pinterest	http://www.pinterest.com/	Curated Content		categories that enable learners to make sense of information from different media perspectives. Each tool has its own unique approach to providing this.		
Paper Li	http://paper.li	Curated Content				
Spundge	https://www.spundge.com	Curated Content				
List.ly	http://list.ly	Links for Sharing		Similar to the Curated Content tools, these are online bookmarks that can be categorized and shared with students, based on their differentiated needs.	Similar to the Curated Content tools, students create their own list of links that support their work. They share the list with peers and teachers depending on the need.	
Diigo	https://www.diigo.com	Links for Sharing				
Drive	https://drive.google.com/	Google Apps	Share rubrics and other assessments to students when that information is needed.	Manage and share content via folders. Include folders where students can submit work.	As students work through the Writing Process (CC.WRI.5), they share a link to that work with peers and teachers for on-going feedback, monitoring, and targeted support where needed.	
Docs	https://docs.google.com	Google Apps		Provide links and other media resources for student access. Create centers, thinkdots, RAFTS, and other activities that differentiate based on Readiness, Interests, and Learning Profile.	As students work through the Writing Process (CC.WRI.5), they share a link to that work with peers and teachers for on-going feedback, monitoring, and targeted support where needed.	Students design products using these various office tools, which best fits the outcome and audience need.
Sheets	https://docs.google.com/sp	Google Apps				
Slides	https://docs.google.com/pr	Google Apps				
Google+ Communities	https://plus.google.com/col	Google Apps	Student replies to posts made for Content & Process Differentiation are	Easy way to organize content via different modalities such as video, links, and podcasts	Similar to blogging, student reflections and journalling are opportunities to show	Studnet work can be linked or attached
Discussion Boards	https://groups.google.com	Google Apps	formative assessment data to assess for use by students. Posts can be crafted as activities for Centers or Menus.	understanding. Audio & video recordings and images are alternatives to writing.	via these tools.	
TAKK	https://tackk.com	Interactive Pages/Posters		Provide content in diverse ways, or specifically target readiness levels with an interactive page for each skill group. Content can also be provided for heterogenicus groupings, such as incorporating various learning profiles.	Students create their own pages/posters to make sense of the content for a specific lesson or group of lessons. In this instance, the student work is practice, not a final product to be graded.	Students have different ways to demonstrate their understanding by choosing the media and medium to incorporate into these interactive pages/posters. Great opportunity for using multiple intelligences such as by Robert Stemberg.
Thinglink	https://www.thinglink.com/	Interactive Pages/Posters				
Piktochart	http://piktochart.com/	Interactive Pages/Posters				

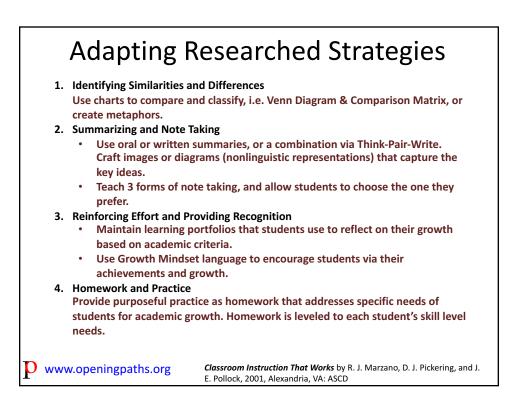








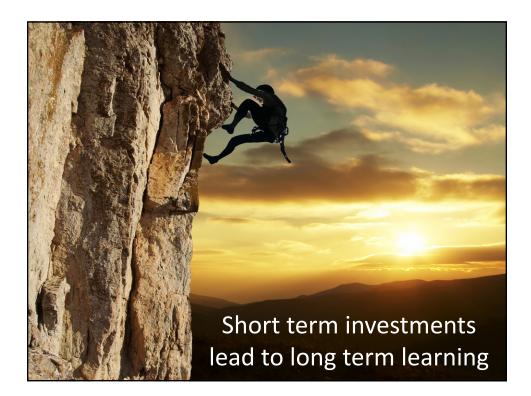




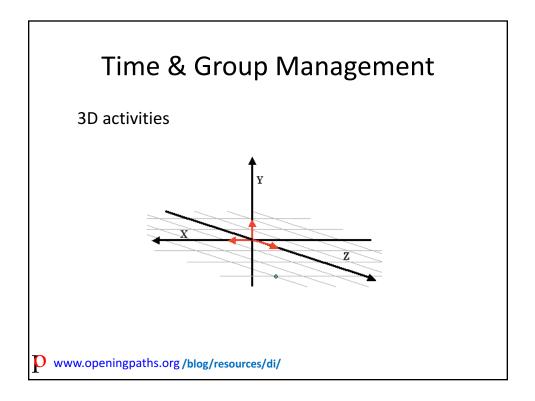


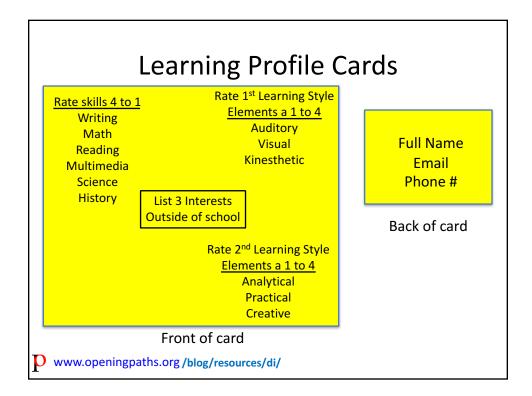


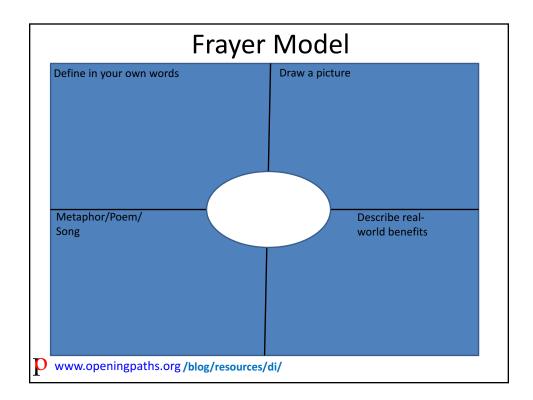


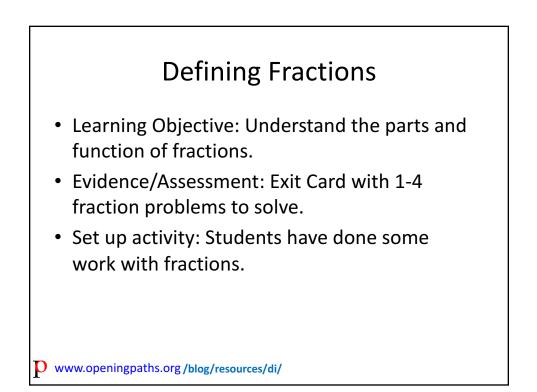












•	explain all work.
Name 2 different fractions that could represent the picture.	Draw a picture that shows $\frac{1}{3} + \frac{2}{3}$
If 3/8 of the race is bicycling, 1/8 is swimming, how much of the race is left to run?	If you had the following scores on a test, which one would be better? <u>Right</u> <u>1</u> or <u>4</u> Total <u>2</u> 6
	that could represent the picture.

Instructions:	nk Dots (Tiere	-
What is the top of the fraction called? What is the bottom of the fraction called?	Write a fraction for the shaded area.	Draw a picture that shows 2/3.
•	••	•••
Make a word problem that explains 7/10.	If you have 3/5 of a pizza eaten, how many pieces are left in the pizza?	If you had the following scores on a test, which would be better? <u>Right 1</u> or <u>4</u> Total 2 6
••	••	•••

