Differentiation and Flexible Tasks

What features of a task make it accessible to students?



Ensuring access

In your notebook (no discussion yet):

- 1. What can prevent a student from accessing a piece of mathematics? Make a list.
- 2. What features of a math task make it more (or less) accessible to an individual student?



What is differentiation?

Instruction can be differentiated by focusing on...

- 1) Content
- 2) Process
- 3) Product
- [4) Learning Environment]



What is differentiation?

Instruction can be differentiated by focusing on...

- 1) Content
- 2) Process Questioning
- 3) Product
- [4) Learning Environment]



- LEVEL 1: Details
- LEVEL 2: Characteristics
- LEVEL 3: Elaborations
- LEVEL 4: Evidence

LEVEL 1: Details



LEVEL 1: Details

 Asks students to recall or recognize details about specific types of information

LEVEL 2: Characteristics



LEVEL 2: Characteristics

 Asks students to describe the characteristics of a given category

LEVEL 3: Elaboration



LEVEL 3: Elaboration

 Level 3 questions ask students to elaborate on the characteristics of and elements within a category. Typically, such questions require students to explain the reasons something happens.

LEVEL 4: Evidence



LEVEL 4: Evidence

 Level 4 questions require students to provide support or evidence for their elaborations. They might ask students to identify sources that support their elaborations.

Question Grids

- helps teachers create and organize questions into categories
- can be modified to a teacher's preferences
- give sentence starters
- can be used to keep track of which students are answering which types of questions (when used with a seating chart/roster)

Question Grid

	Is/Are	Did/Do?	Can	Would/Should	Will	Might/Could
What						
Where						
When						
Who						
Why						
How						

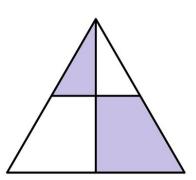


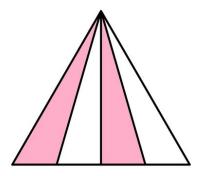
Mathematical Image 1

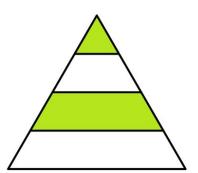


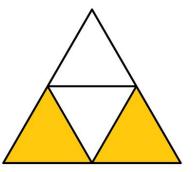


Mathematical Image 2



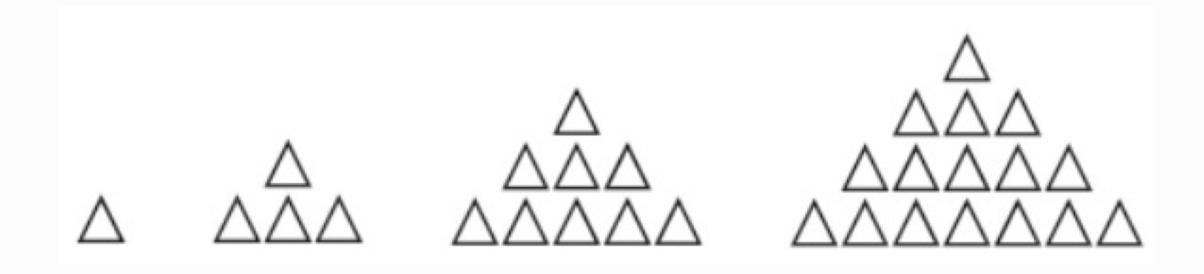








Mathematical Image 3





Analyzing Question Grid

What were some things you liked about the question grid and/or the process of filling one out?

What was limiting about the question grid and/or the process of filling one out?



Question Grid

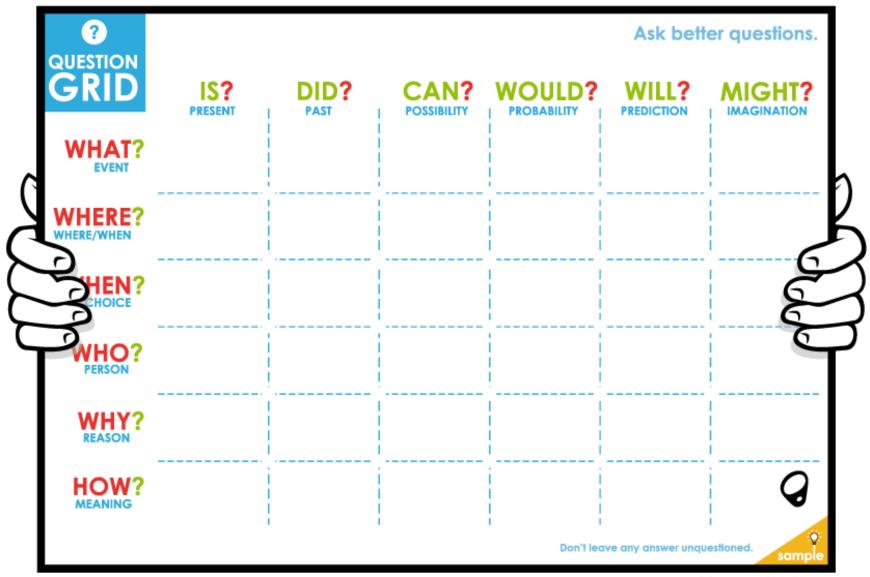
	Is/Are	Did/Do?	Can	Would/Should	Will	Might/Could
What						
Where						
	D	ETAIL	S	ELA	BORA	TION
When						
Who						
Why						
	CHA	RACT	ER-	EV	IDEN	CE
How	1.	STICS				



Questioning Grid

	ls / Are	Did / Do	Can	Would / Should	Will	Might / Could
What						
Where		actua		P	redicti	<u>/e</u>
When		Ciotolai			Odioti	
Who						
Why	Ar	alytic	al	Ap	plicati	on
How				S	ynthes	is









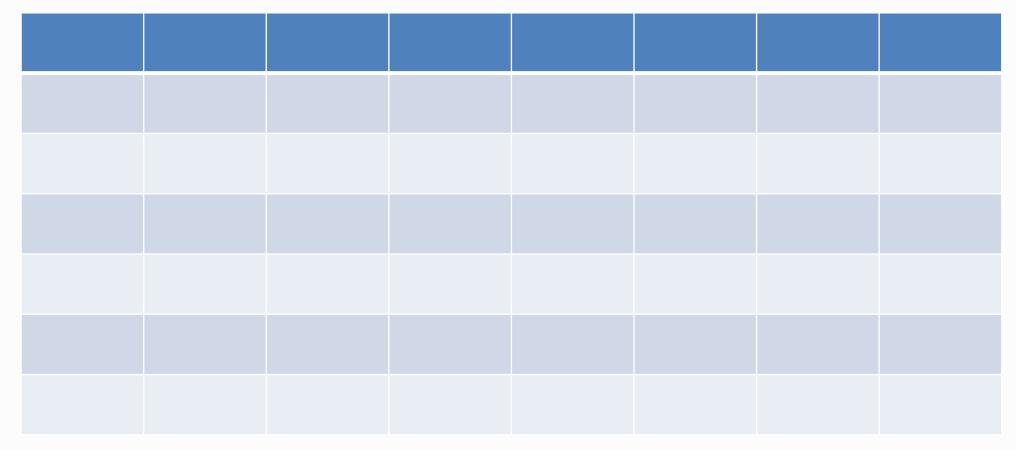
Add your school logo **Free!**

Higher Order Questioning Grid

`\	is	was / were	do / does / did	can / could	shall / should	would	might
Who	(· · ·						
What	C	1 Point uestio	115				
When				,,			
Where				,	1		
Why						``\	
How							```^
	isn't	wasn't were not	don't didn't	can't couldn't	shouldn't	wouldn't	might not



Question Grid





Word Bank

Reproduce Classify Predict What How Elaborate Revise Represent Speculate Estimate Evaluate When Prove Discuss Explain Why Model Modify Compare Dispute Construct

Question Grid

Date:

Objective:

Essential Question:

	Is/Are? (Present)	Did/Do/Does? (Past)	Can? (Possibility)	Would/Should? (Probability)	Will? (Prediction)	Might/Could? (Imagination)
What?						
Where?						
When?						
Why?						
How?						



Four Views of 1/4

Differentiation (variation within a class) # Adaptation (changing a task for your whole class)

- Look at / try all four tasks with your table.
- With a different partner: pick a task.
- Without adapting the central task into a different one, how could you differentiate it to add access points and/or sufficient challenge?



References

"Asking Questions - At Four Different Levels", Art and Science of Teaching, February 2013, Volume 70, Number 5, ASCD

