















Anticipating student responses prior to the lesson					
	What should you consider?	How is this supported?			
•	The strategies that students must use to approach or solve a	 Solving the problem in as many ways as possible 			
•	challenging mathematical task How to respond to what students	 Solving the problem with other teachers 			
•	produce Which strategies are most useful in	 Drawing on relevant research when possible 			
	addressing the mathematics to be learned	 Documenting student responses year to year 			

The University of Texas at Austin Charles A. Dana Center

<i>Monitoring</i> students' work on, and engagement with, the task						
	What does this involve?		How is this supported?			
•	Circulating while students work, watching and listening	•	Anticipating student responses beforehand			
•	Recording interpretations, strategies, and points of confusion	•	Using a recording tool Observing students' actual			
•	Asking probing questions to get students back "on track" or to advance their understanding	r	responses during independent wo			



Question Type	Description		
Gathering information	Students recall facts, definitions, or procedures.		
Probing thinking	Students explain, elaborate, or clarify their thinking, including articulating the steps in solution methods or the completion of a task.		
Making the mathematics visible	Students discuss mathematical structures and make connections among mathematical ideas and relationships.		
Encouraging reflection and justification	Students reveal deeper understanding of their reasoning and actions, including making an argument for the validity of their work.		



Reflection



How can you apply this new learning to support teachers in orchestrating productive mathematical discourse in the classroom?

The University of Texas at Austin Charles A. Dana Center

Contact Information					
Denise Thornton denisethornton@austin.utexa	Shelly LeDoux as.edushelly.ledoux@Austin.utexas.edu				
512-232-2250	512-471-6536				
@UTDCDenise	@ledouxs				
Visit the Charles A	. Dana Center at <mark>utdanacenter.org</mark> .				
Find us on Facebook at <u>facebook.com/utdanacenter</u> or on Twitter at <u>@UTDanaCenter</u> .					
The University of Texas at Austin Charles A. Dana Center					