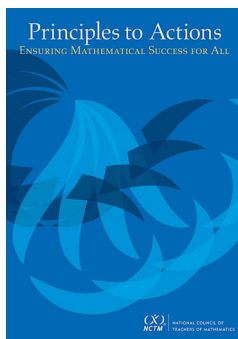


Implement Tasks that Promote Reasoning and Problem Solving: Teacher and Student Actions

What are teachers doing?	What are students doing?
<ul style="list-style-type: none"> • Motivating students' learning of mathematics through opportunities for exploring and solving problems that build on and extend their current understanding. • Selecting tasks that provide multiple entry points through the use of varied tools and representations. • Posing tasks on a regular basis that require a high level of cognitive demand. • Supporting students in exploring tasks without taking over student thinking. • Encouraging students to use varied approaches and strategies to make sense of and solve tasks. 	<ul style="list-style-type: none"> • Persevering in exploring and reasoning through tasks. • Taking responsibility for making sense of tasks by drawing on and making connections with their prior understanding and ideas. • Using tools and representations as needed to support their thinking and problem solving. • Accepting and expecting that their classmates will use a variety of solution approaches and that they will discuss and justify their strategies to one another.



National Council of Teachers of Mathematics. (2014). *Principles to actions: Ensuring mathematical success for all*. Reston, VA: Author.

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