



Engage students in reflecting, connecting, and consolidating their understanding of the mathematical ideas through:

- whole class debrief
- exit slip
- · written reflection
- collaborative construction of poster or chart.

Launch

Set up the task:

- uncover student thinking/prior knowledge through questioning
- · ensure that students understand the task
- establish clear expectations for work time and work product/s.

Reflect and Consolidate

Mathematical Goal

Build and Expand

Facilitate Productive Struggle

Make Student

Thinking Visible

Allow students to engage in productive struggle:

- ask targeted questions
- redirect as necessary
- provide appropriate support
- provide opportunities for collaborative work (small groups/pairs).

Expan

Build off and expand on students' current understanding by facilitating application and practice:

- pose a similar problem (vary context, structure, and/or number complexity)
- provide differentiated support, instruction, and/or practice.

Connect to Mathematical Goal

Guide students to make explicit connections between their strategies and solutions and the important mathematical ideas by:

- introducing standard language/ notation/models
- · making sense of patterns
- formalizing theories and proving/disproving conjectures
- connecting procedures to concepts.

Facilitate sharing of student strategies/reasoning through whole class discussion using:

- effective questioning and probing of student thinking
- visual representations
- productive talk moves (e.g., wait time; revoicing; prompting further participation; asking students to rephrase, apply reasoning to someone else's, and/or provide evidence).