



PROBLEM SOLVING PROCESS

NOTICE & WONDER

Focus students' thinking about the problem.

- What do you notice?
- What do you wonder?
- What question is the problem asking?

PREDICT & JUSTIFY

Uncover students' thinking around how they plan to address the problem.

- What is your prediction?
- What strategy will you use to test it?
- What do you think will happen when you test your prediction and why?

TEST & OBSERVE

Encourage students to observe and process the results of testing their hypothesis.

- Test your hypothesis.
- Describe what happened.

ANALYZE & LEARN

Facilitate students in analyzing the feedback/results.

- How does this compare to what you thought would happen?
- What did you learn?
- How will you use what you learned?

CONNECT & EXTEND

Stretch students' thinking.

- How does what you learned support your understanding of [the concept]?
- What would happen if _____?
- How would you apply this concept to [this] situation?