

Standards for Mathematical Practices

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
 - *Make sense of quantities and their relationships*
 - *Represent symbolically*
 - *Manipulate equations*
 - *Understands and uses different properties and operations*
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
 - *Look closely to determine a pattern or structure*
 - *Step back for an overview and shift perspective*
 - *See complicated things as being composed of single objects or several smaller objects*
8. Look for and express regularity in repeated reasoning.

Reasoning and Sense-Making Question Stems

- Compare and contrast: How are they alike? How different?
- Predict forward: "What would happen if ...?"
- Predict backward: "How can I make ... happen?" "Is it possible to ...?"
- Analyze a connection/relationship: "When will ... be (larger, equal to, exactly twice ...) compared to ...?" "When will ... be as big as possible?"
- Generalize/make conjectures: "When does ... work?" "Under what conditions does ... behave this way?" "Describe how to find ...?" "Is this always true?"
- Justify/prove mathematically: "Why does ... work?"
- Consider assumptions inherent in the problem and what would happen if they were changed?
- Interpret information, make/justify conclusions: "The data supports ..." "This ... will make ... happen because ..."

Common Core embraces innovative uses of technology to differentiate instruction and to encourage students to engage, communicate, and create.
