

# 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 ..."

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

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