**CCSSM Standards for Mathematical Practice**

1. **Make sense of problems and persevere in solving them**
   - Explain the meaning of a problem
   - Describe possible approaches to a solution
   - Consider similar problems to gain insights
   - Use concrete objects or illustrations to think about and solve problems
   - Monitor and evaluate their progress and change strategy if needed
   - Check their answers using a different method

2. **Reason abstractly and quantitatively**
   - Explain the relationship between quantities in problem situations
   - Represent situations using symbols (e.g., writing expressions or equations)
   - Create representations that fit the problem
   - Use flexibly the different properties of operations and objects

3. **Construct viable arguments and critique the reasoning of others**
   - Understand and use assumptions, definitions, and previous results to explain or justify solutions
   - Make conjectures by building a logical set of statements
   - Analyze situations and use counterexamples
   - Justify conclusions in a way that is understandable to teachers and peers
   - Compare two possible arguments for strengths and weaknesses

4. **Model with mathematics**
   - Apply mathematics to solve problems in everyday life
   - Make assumptions and approximations to simplify a problem
   - Identify important quantities and use tools to map their relationships
   - Reflect on the reasonableness of their answer based on the context of the problem

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5. Use appropriate tools strategically
- Consider a variety of tools and choose the appropriate tool (e.g., manipulative, ruler, technology) to support their problem solving
- Use estimation to detect possible errors
- Use technology to help visualize, explore, and compare information

6. Attend to precision
- Communicate precisely using clear definitions and appropriate mathematics language
- State the meanings of symbols
- Specify appropriate units of measure and labels of axes
- Use a degree of precision appropriate for the problem context

7. Look for an make use of structure
- Explain mathematical patterns or structures
- Shift perspective and see things as single objects or as composed of several objects
- Explain why and when properties of operations are true in a context

8. Look for and express regularity in repeated reasoning
- Notice if calculations are repeated and use information to solve problems
- Use and justify the use of general methods or shortcuts
- Self-assess to see whether a strategy makes sense as they work, checking for reasonableness prior to getting the answer