The Standards for Mathematical Practice

Grades K-12

| Mathematically proficient students | Which means that your child will |
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| 1 Make sense of problems and persevere in solving them. | Take time to read and think carefully about a problem Work hard even when challenged Work on complex tasks with peers Build stamina for mathematics Try different strategies Be motivated to tackle challenges |
| 2 Reason abstractly and quantitatively. | Understand and use the contextual situation of a problem Identify needed quantities in a problem and use them to compute Explain what a solution means in the context of the problem Label quantities appropriately |
| 3 Construct viable arguments and critique the reasoning of others. | Justify methods and solutions with clarity Speak and write about mathematics Form a logical argument as proof Discuss mathematical ideas with others Listen actively to classmates' thinking and analyze the validity of their claims |
| 4 Model with mathematics. | Use models such as graphs, drawings, tables, symbols, and diagrams to solve problems Solve real-world problems using mathematics |
| 5 Use appropriate tools strategically. | Estimate an answer before using a tool Select the right tool for the job Tools include paper-and-pencil algorithms and formulas |
| 6 Attend to precision. | Use correct mathematical vocabulary and symbols Assess the reasonableness of answers Decide whether an estimate or an exact answer is needed |
| 7 Look for and make use of structure. | Notice, continue, and create patterns Use patterns to solve problems |
| 8 Look for and express regularity in repeated reasoning. | Notice patterns in calculations to create and explain rules and shortcuts Generalize rules and properties of number to more easily solve problems |