

# MATHEMATICS

## Mathematical Reasoning

Grade K	Grade 1	Grade 2
<p><b>1. Students make decisions about how to set up a problem.</b></p> <p>k.1.1 decide about the approach, materials and strategies to use</p> <p>k.1.2 use tools and strategies such as manipulatives or sketches to model problems</p> <p><b>2. Students solve problems in reasonable ways and justify reasoning.</b></p> <p>k.2.1 explain the reasoning used with concrete objects and pictorial representations</p> <p>k.2.2 make precise calculations and check the validity of the results from the context of the problem</p>	<p><b>1. Students make decisions about how to set up a problem.</b></p> <p>1.1.1 decide about the approach, materials and strategies to use</p> <p>1.1.2 use tools and strategies such as manipulatives or sketches to model problems</p> <p><b>2. Students solve problems and justify their reasoning.</b></p> <p>1.2.1 explain the reasoning used and justify the procedures selected</p> <p>1.2.2 make precise calculations and check the validity of the results from the context of the problem</p> <p><b>3. Students note connections between one problem and another.</b></p> <p><b>4. Students communicate their knowledge of basic skills, conceptual understanding, and problem solving and demonstrate their understanding of mathematical communications of others.</b></p> <p>1.4.1 use appropriate mathematical vocabulary; for example, words for simple shapes, attributes, and numbers</p>	<p><b>1. Students make decisions about how to set up a problem.</b></p> <p>2.1.1 decide about the approach, materials and strategies to use</p> <p>2.1.2 use tools and strategies such as manipulatives or sketches to model problems</p> <p><b>2. Students solve problems and justify their reasoning.</b></p> <p>2.2.1 defend the reasoning used and justify the procedures selected</p> <p>2.2.2 make precise calculations and check the validity of the results from the context of the problem</p> <p><b>3. Students note connections between one problem and another.</b></p> <p><b>4. Students communicate their knowledge of basic skills, conceptual understanding, and problem solving and demonstrate their understanding of mathematical communications of others.</b></p> <p>2.4.1 use appropriate mathematical vocabulary; for example, words for simple shapes, attributes, and numbers</p>