Kindergarten Standards for Mathematical Practice	
The K-12 Standards for Mathematical Practice describe varieties of expertise that mathematics educators at all levels should seek to develop	
in their students. This page gives examples of what the practice standards look like at the specified grade level.	
Standards	Explanations and Examples
Students are expected to:	In Kindergarten, students begin to build the understanding that doing mathematics involves solving
1. Make sense of problems and	problems and discussing how they solved them. Students explain to themselves the meaning of a
persevere in solving them.	problem and look for ways to solve it. Younger students may use concrete objects or pictures to help
	them conceptualize and solve problems. They may check their thinking by asking themselves, "Does this
	make sense?" or they may try another strategy.
Students are expected to:.	Younger students begin to recognize that a number represents a specific quantity. Then, they connect the
2. Reason abstractly and	quantity to written symbols. Quantitative reasoning entails creating representation of a problem while
quantitatively.	attending to the meanings of the quantities.
Students are expected to:	Younger students construct arguments using concrete referents, such as objects, pictures, drawings, and
3. Construct viable arguments	actions. They also begin to develop their mathematical communication skills as they participate in
and critique the reasoning of	mathematical discussions involving questions like "How did you get that?" and "Why is that true?" They
others.	explain their thinking to others and respond to others' thinking.
Students are expected to:	In early grades, students experiment with representing problem situations in multiple ways including
4. Model with mathematics.	numbers, words (mathematical language), drawing pictures, using objects, acting out, making a chart or
	list, creating equations, etc. Students need opportunities to connect the different representations and
	explain the connections. They should be able to use all of these representations as needed.
Students are expected to:	Younger students begin to consider the available tools (including estimation) when solving a
5. Use appropriate tools	mathematical problem and decide when certain tools might be helpful. For instance, kindergarteners may
strategically.	decide that it might be advantageous to use linking cubes to represent two quantities and then compare
	the two representatives side-by-side.
Students are expected to:	As kindergarteners begin to develop their mathematical communication skills, they try to use clear and
6. Attend to precision.	precise language in their discussions with others and in their own reasoning.
Students are expected to:	Younger students begin to discern a pattern or structure. For instance, students recognize the pattern that
7. Look for and make use of	exists in the teen numbers; every teen number is written with a 1 (representing one ten) and ends with the
structure.	digit that is first stated. They also recognize that $3 + 2 = 5$ and $2 + 3 = 5$.
Students are expected to:	In the early grades, students notice repetitive actions in counting and computation, etc. For example,
8. Look for and express	they may notice that the next number in a counting sequence is one more. When counting by tens, the
regularity in repeated	next number in the sequence is "ten more" (or one more group of ten). In addition, students continually
reasoning.	check their work by asking themselves, "Does this make sense?"