# October 2014 Draft - Standards for K-3 Social, Emotional, and Intellectual Habits 

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## Domain:

Kindergarten Content Standard
Social and Intellectual Habits

| Develop a |
| :--- | ---: |
| positive self- |$\quad$ Self-Awarenes | SMP 1,3 |
| ---: | :--- |

concept

## CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them






 make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.





 and ask useful questions to clarify or improve the arguments.

## Sense of self as <br> competent and capable <br> SMP 1,3,6,7

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## CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others






 and ask useful questions to clarify or improve the arguments.

## CCSS.Math.Practice.MP6 Attend to precision



 other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

## CCSS.Math.Practice.MP7 Look for and make use of structure




 For example, they can see $5-3(x-y)^{2}$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers $x$ and $y$.

| Develop a <br> positive <br> attitude toward <br> learning | Sense of self as <br> a learner | Sense of self as a learner can be supported through the following standards: |
| :--- | :--- | :--- |
| SMP 1,3,5 |  |  |$\quad$.

## CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them






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 and ask useful questions to clarify or improve the arguments.

## CCSS.Math.Practice.MP5 Use appropriate tools strategically






 understanding of concepts.

| Curiosity and <br> initiative <br> SMP 1,7 | Curiosity and initiative can be supported through the following standards: |
| :--- | :--- |

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## Cooperation Cooperation during learning experiences can be supported through the following standards: during learning experiences SMP 3,6

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SUBJECT AREA CONNECTION:
Math
DATE: December 30, 2014 $\qquad$ CONTRIBUTORS: $\qquad$

Social and Intellectual Habits

| Identify and understand emotions of self and others | Identifying and Understanding Emotions | Identifying and understanding emotions can be supported through the following standards: |
| :---: | :---: | :---: |
|  |  |  |
|  | Empathy SMP 3 | Empathy can be supported through the following standards: |

## CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others






 and ask useful questions to clarify or improve the arguments.

| Develop positive | Social |
| :--- | :--- |
| interpersonal | Awareness and |
| relationships | Interpersonal <br>  <br> Skills <br> SMP 3 |

Social Awareness and Interpersonal Skills can be supported through the following standards:

CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.





 and ask useful questions to clarify or improve the arguments.

| Responsible <br> decision making <br> and social | Responsible decision making and social problem solving can be supported through the following standards: |
| :--- | :--- |
| problem solving |  |

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## Conflict Resolution <br> SMP 1

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| Executive <br> Function | Working <br> Memory and Meta-cognition SMP 1, 3, 5, 6, 7 | Working Memory \& Meta-cognition can be supported through the following standards: <br> K.CC.A. 1 <br> Count to 100 by ones and by tens <br> K.CC.A. 2 <br> Count forward beginning from a given number within the known sequence (instead of having to begin at 1). <br> K.OA.A1 <br> Represent addition and subtraction with objects, fingers, mental images, drawings ${ }^{1}$, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations. <br> K.OA.A3 <br> Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g., $5=2+3$ and $5=4+1$ ). <br> K.NBT.A. 1 <br> Compose and decompose numbers from 11 to 19 into ten ones and some further ones, e.g., by using objects or drawings, and record each composition or decomposition by a drawing or equation (such as $18=10+8$ ); understand that these numbers are composed of ten ones and one, two, three, four, five, six, seven, eight, or nine ones. <br> K.MD.B. 3 <br> Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. <br> K.GB. 6 <br> Compose simple shapes to form larger shapes. For example, "Can you join these two triangles with full sides touching to make a rectangle?" |
| :---: | :---: | :---: |

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## CCSS.Math.Practice.MP5 Use appropriate tools strategically






 understanding of concepts.

## CCSS.Math.Practice.MP6 Attend to precision.



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## CCSS.Math.Practice.MP7 Look for and make use of structure




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## K.GB. 5

Model shapes in the world by building shapes from components (e.g., sticks and clay balls) and drawing shapes

## CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them






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## CCSS.Math.Practice.MP2 Reason abstractly and quantitatively.




 operations and objects.

## CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others.






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## CCSS.Math.Practice.MP4 Model with mathematics.





 of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

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## Self-regulation <br> of impulses and <br> emotional <br> reaction <br> SMP 1, 3

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## Managing <br> attention and <br> behavior <br> SMP 1, 6

Managing attention and behavior can be supported through the following standards:

## CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them.






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CCSS.Math.Practice.MP6 Attend to precision.


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| Logic and <br> Reasoning <br> SMP ALL | Critical and <br> analytical <br> thinking <br> SMP 1,3 | Critical and analytical thinking can be supported through the following standards: |
| :--- | :--- | :--- |
|  |  |  |

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|  |  |
| :---: | :---: |
|  |  |
| CCSS.Math.Practice.MP1 Make sense of problems and persevere in solving them. <br> Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches. <br> CCSS.Math.Practice.MP2 Reason abstractly and quantitatively. <br> Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize-to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents-and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects. <br> CCSS.Math.Practice.MP3 Construct viable arguments and critique the reasoning of others. <br> Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and-if there is a flaw in an argument-explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments. <br> CCSS.Math.Practice.MP4 Model with mathematics. <br> Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose. |  |
|  |  |

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## CCSS.Math.Practice.MP5 Use appropriate tools strategically






 understanding of concepts.

## CCSS.Math.Practice.MP6 Attend to precision.



 other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

## CCSS.Math.Practice.MP7 Look for and make use of structure




 For example, they can see $5-3(x-y)^{2}$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers $x$ and $y$.

## CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.




 They continually evaluate the reasonableness of their intermediate results.

| Logic and Reasoning SMP ALL | Reasoning and problem solving | Reasoning and problem solving can be supported through the following standards: |
| :---: | :---: | :---: |
|  |  | K.MD.A. 2 <br> Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference. For example, directly compare the heights of two children and describe one child as taller/shorter. <br> KMD.B. 3 <br> Classify objects into given categories; count the numbers of objects in each category and sort the categories by count. |

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|  | K.G.B. 4 <br> Analyze and compare two- and three-dimensional shapes, in different sizes and orientations, using informal language to describe their similarities, differences, parts (e.g., number of sides and vertices/"corners") and other attributes (e.g., having sides of equal length). |

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## CCSS.Math.Practice.MP8 Look for and express regularity in repeated reasoning.




 They continually evaluate the reasonableness of their intermediate results.
Symbolic $\quad$ Symbolic $\quad$ Symbolic representation can be supported through the following standards:

Representation
SMP
1,2,4,5,7

## representation

## K.OA.A. 1

Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations. K.OA.A. 2

Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.

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|  | Pretend or <br> symbolic play | Pretend or symbolic play can be supported through the following standards: |
| :--- | :--- | :--- |

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