



Curriculum Grid

Objective Number	NGSS Grades K-2  = Fully covered  = Partially covered	Activities							Problem-Solving Activities				
		Pinwheel	Spinning Tops	Seesaw	Raft	Car Launcher	Measuring Car	Ice Hockey Player	Sara's New Dog	Crossing Crocodile River	Hot Day	Scarecrow	Swing
Disciplinary Core Ideas: Physical Science													
1	MS-PS2 Motion and Stability: Forces and Interactions												
Crosscutting Concepts													
1	Patterns												
2	Cause and effect: Mechanism and explanation												
3	Scale, proportion, and quantity												
4	Systems and system models												
5	Energy and matter: Flows, cycles, and conservation												
6	Structure and Function												
7	Stability and change												
Science and Engineering Practices													
1	Asking questions and Defining Problems												
2	Developing and using models												
3	Planning and carrying out investigations												
4	Analyzing and interpreting data												
5	Using mathematics, Informational and Computer Technology, and computational thinking												
6	Constructing explanations and designing solutions												
7	Engaging in argument from evidence												
8	Obtaining, evaluating, and communicating information												

Objective Number	Common Core State Standards for Mathematics Grades K-2	Activities										Problem-Solving Activities			
		Pinwheel	Spinning Tops	Seesaw	Raft	Car Launcher	Measuring Car	Ice Hockey Player	Sam's New Dog	Crossing Crocodile River	Hot Day	Scarecrow	Swing		
Mathematical Practice															
MP1	Make sense of problems and persevere in solving them.	●	●	●	●	●	●	●	●	●	●	●	●	●	
MP2	Reason abstractly and quantitatively.		●	●	●	●	●	●	●	●	●	●	●	●	
MP3	Construct viable arguments and critique the reasoning of others.														
MP4	Model with mathematics.	●	●	●	●	●	●	●	●	●	●	●	●	●	
MP5	Use appropriate tools strategically.	●	●	●	●	●	●	●	●	●	●	●	●	●	
MP6	Attend to precision.	●	●	●	●	●	●	●	●	●	●	●	●	●	
MP7	Look for and make use of structure.	●	●	●	●	●	●	●	●	●	●	●	●	●	
MP8	Look for and express regularity in repeated reasoning.	●	●	●	●	●	●	●	●	●	●	●	●	●	
Measurement & Data															
K.MD.A	Describe and compare measurable attributes.	●	●	●	●	●	●	●	●	●	●	●	●	●	
1.MD.A	Measure lengths indirectly and by iterating length units.					●	●	●	●	●	●	●	●	●	
1.MD.C	Represent and interpret data.	●	●	●	●	●	●	●	●	●	●	●	●	●	
2.MD.A	Measure and estimate lengths in standard units.					●	●	●	●	●	●	●	●	●	
2.MD.D	Represent and interpret data.	●	●	●	●	●	●	●	●	●	●	●	●	●	
Writing Standards															
W.K.2	Use a combination of drawing, dictating, and writing to compose informative/explanatory texts in which they name what they are writing about and supply some information about the topic.	●	●	●	●	●	●	●	●	●	●	●	●	●	
W.1.2	Write informative/explanatory texts in which they name a topic, supply some facts about the topic, and provide some sense of closure.	●	●	●	●	●	●	●	●	●	●	●	●	●	
W.2.2	Write informative/explanatory texts in which they introduce a topic, use facts and definitions to develop points, and provide a concluding statement or section.	●	●	●	●	●	●	●	●	●	●	●	●	●	
Speaking and Listening															
SL.K.1	Participate in collaborative conversations with diverse partners about kindergarten topics and texts with peers and adults in small and larger groups.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.K.2	Confirm understanding of a text read aloud or information presented orally or through other media by asking and answering questions about key details and requesting clarification if something is not understood.														
SL.K.3	Ask and answer questions in order to seek help, get information, or clarify something that is not understood.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.K.4	Describe familiar people, places, things, and events and, with prompting and support, provide additional detail.														
SL.K.5	Add drawings or other visual displays to descriptions as desired to provide additional detail.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.K.6	Speak audibly and express thoughts, feelings, and ideas clearly.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.1.1	Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.1.2	Ask and answer questions about key details in a text read aloud or information presented orally or through other media.														
SL.1.3	Ask and answer questions about what a speaker says in order to gather additional information or clarify something that is not understood.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.1.4	Describe people, places, things, and events with relevant details, expressing ideas and feelings clearly.														
SL.1.5	Add drawings or other visual displays to descriptions when appropriate to clarify ideas, thoughts, and feelings.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.1.6	Produce complete sentences when appropriate to task and situation. (See grade 1 Language standards 1 and 3 here for specific expectations.)														
SL.2.1	Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.2.2	Recount or describe key ideas or details from a text read aloud or information presented orally or through other media.														
SL.2.3	Ask and answer questions about what a speaker says in order to clarify comprehension, gather additional information, or deepen understanding of a topic or issue.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.2.4	Tell a story or recount an experience with appropriate facts and relevant, descriptive details, speaking audibly in coherent sentences.	●	●	●	●	●	●	●	●	●	●	●	●	●	
SL.2.5	Create audio recordings of stories or poems; add drawings or other visual displays to stories or recounts of experiences when appropriate to clarify ideas, thoughts, and feelings.														
SL.2.6	Produce complete sentences when appropriate to task and situation in order to provide requested detail or clarification. (See grade 2 Language standards 1 and 3 here for specific expectations.)														