Teacher's Edition Grade 2 · Unit 1











Performance Expectations at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Performance Expectations.

Performance Expectations	MODULE: Earth's Landscape
2-ESS2-2	•
2-ESS2-3	•

Correlations by Module to the NGSS

MODULE: Earth's Landscape			
2-ESS2	Earth's Systems		
2-ESS2-2	Develop a model to represent the shapes and kinds of land and bodies of water in an area. [Assessment Boundary: Assessment does not include quantitative scaling in models.]	14, <i>16–17,</i> 21, 22, <i>26–27, 51–52, 62–65</i> Teacher's Edition <i>Only</i> : 11	
SEP Science a	nd Engineering Practices		
		9, 12–13, 14, <i>16–17</i> , 21, 22, <i>26–27</i> , 29, 31, 39, <i>44–46, 51–52</i> , 60–61, <i>62–65</i> Teacher's Edition <i>Only</i> : 20	
DCI Disciplina	DCI Disciplinary Core Ideas		
ESS2.B: Plate Tectonics and Large-Scale System Interactions5, 11–13, 16–17, 18–19, 21, 22, 24, 26–27, 28–29, 31, 44–46, 57, 59–61, 62–65• Maps show where things are located. One can map the shapes and kinds of land and water in any area. (2-ESS2-2)5, 11–13, 16–17, 18–19, 21, 22, 24, 26–27, 28–29, 31, 44–46, 57, 59–61, 62–65		26–27, 28–29, 31, 44–46, 57, 59–61,	
CCC Crosscutting Concepts			
Patterns • Patterns in the na (2-ESS2-2)	atural world can be observed.	13, 31, 35 Teacher's Edition <i>Only</i> : 9, 10, <i>1</i> 7, 20, <i>2</i> 7, 29, 39	

2-ESS2	Earth's Systems	
2-ESS2-3	Obtain information to identify where water is found on Earth and that it can be solid or liquid.	<i>44–47</i> , 48–50, 53
SEP Science a	nd Engineering Practices	'
Obtaining, Evaluating, and Communicating Information44–47, 48–49, 50, 51–52, 53, 55, 57Obtaining, evaluating, and communicating information in K–2 builds on prior51–52, 58, 61, 62–65• Obtain information using various texts, text features (e.g., headings, tables of contents, glossaries, electronic menus, icons), and other media that will be useful in answering a scientific question. (2-ESS2-3)44–47, 48–49, 50, 51–52, 53, 55, 57		<i>44–47</i> , 48–49, 50, <i>51–52, 53</i> , 55, 57, <i>51–52</i> , 58, 61, <i>62–65</i>
DCI Disciplina	ry Core Ideas	·
 ESS2.C: The Roles of Water in Earth's Surface Processes Water is found in the ocean, rivers, lakes, and ponds. Water exists as solid ice and in liquid form. (2-ESS2-3) 		<i>44–47</i> , 48–49, 50, <i>51–52, 53</i> , 54, 56, 57, 58, 60, <i>62–65</i>
CCC Crosscutting Concepts		
Patterns • Patterns in the na	atural world can be observed. (2-ESS2-3)	50 Teacher's Edition <i>Only</i> : <i>46</i> , <i>52</i> , 56

33		
14		
33, 44		
History-Social Science Content Connections		
11		
12, 16, 53		
15		
ELD Connections		
Teacher's Edition <i>Only</i> : 11, 20, 29, 45, 64		
Teacher's Edition Only: 38, 56		

CCSS ELA/Literacy Connections		
W.2.2	55	
W.2.7	53	
W.2.8	Teacher's Edition Only: 37	
W.2.10	Teacher's Edition Only: 30	
SL.2.2	15	
SL.2.4e	Teacher's Edition Only: 37	
ALSO INTEGRATES:		
SEP Analyzing and Interpreting Data	9, 32–33, 44–46, 52	
SEP Engaging in Argument from Evidence	47	
SEP Obtaining, Evaluating, and Communicating Information	10–13, 18–19, 28–31, 38, 40, 48–50, <i>53</i> , 58 Teacher's Edition <i>Only</i> : <i>46, 52</i>	
SEP Planning and Carrying Out Investigations	8–9, 16–17, 26–27, 32–33, 37, 44–46, 51–52, 53, 62–65	
SEP Using Mathematics and Computational Thinking	44–46	
CCC Scale, Proportion, and Quantity	32–33, 44–47, 48	
CCC Systems and System Models	49, 53	
Environmental Principle II Concept a	Teacher's Edition Only: 3	
HSS 2.5	18	

Teacher's Edition Grade 2 · Unit 2



Properties of Materials







Performance Expectations at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Performance Expectations.

Performance Expectations	MODULE: Describe Materials	MODULE: Changes to Materials
2-PS1-1	•	
2-PS1-2	•	
2-PS1-3		٠
2-PS1-4		٠
K–2-ETS1-3	•	٠

Correlations by Module to the NGSS

MODULE: Describe Materials

2-PS1	Matter and Its Interactions	
2-1 51 2-PS1-1	Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties. [Clarification Statement: Observations could include color, texture, hardness, and flexibility. Patterns could include the similar properties that different materials share.]	8–10, 16–17, 22–23
SEP Science	and Engineering Practices	
Planning and Carrying Out Investigations8–10, 16–17, 22–23, 26Planning and carrying out investigations to answer questions or test solutions to problems in K–2 builds on prior experiences and progresses to simple investigations, based on fair tests, which provide data to support explanations or design solutions.8–10, 16–17, 22–23, 26• Plan and conduct an investigation collaboratively to produce data to serve as the basis for evidence to answer a question. (2-PS1-1)8–10, 16–17, 22–23, 26		8–10, 16–17, 22–23, 26
DCI Disciplin	ary Core Ideas	
 PS1.A: Structure and Properties of Matter Different kinds of matter exist and many of them can be either solid or liquid, depending on temperature. Matter can be described and classified by its observable properties. (2-PS1-1) 		5, 7, <i>8–10</i> , 11, 12–15, <i>16–17</i> , 18–19, 20, 21, <i>22–23</i> , 24, 25, 26
CCC Crosscu	tting Concepts	
Patterns • Patterns in the natural and human designed world can be observed. (2-PS1-1)		12, 17, 25 Teacher's Edition <i>Only</i> : 10, 14, 23

2-PS1	Matter and Its Interactions	
2-PS1-2	Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.* [Clarification Statement: Examples of properties could include strength, flexibility, hardness, texture, and absorbency.] [Assessment Boundary: Assessment of quantitative measurements is limited to length.]	30–31, 36–37, 38–40
SEP Science a	and Engineering Practices	
Analyzing data in K. 2 builds on prior experiences and programs to collecting		<i>30–31, 36–37, 38–40,</i> 47, 52–54 Teacher's Edition <i>Only</i> : 35
DCI Disciplinary Core Ideas		
PS1.A: Structure and Properties of MatterDifferent properties are suited to different purposes. (2-PS1-2)		27, <i>30–31</i> , 32–35, <i>36–37, 39–40</i> , 42–43, 46, 47, 48, 49–50, <i>52–54</i> , 55, 98
CCC Crosscutting Concepts		
Cause and Effect Simple tests can be designed to gather evidence to support or refute student ideas about causes. (2-PS1-2) 		33, 40, 47 Teacher's Edition <i>Only</i> : <i>31</i> , 32, 34, <i>36</i> , <i>39–40</i>
Influence of Engi • Every human-ma	Engineering, Technology, and Applications of Science ineering, Technology, and Science on Society and the Natural World ade product is designed by applying some knowledge of the natural It by using natural materials. (2-PS1-2)	Teacher's Edition <i>Only</i> : 50

2-PS1	Matter and Its Interactions	
() К-2- ETS1-3	Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.	30–31, 38–40, 52–54
SEP Science and Engineering Practices		
 Analyzing and Interpreting Data Analyzing data in K–2 builds on prior experiences and progresses to collecting, recording, and sharing observations. Analyze data from tests of an object or tool to determine if it works as intended. (K–2-ETS1-3) 		30–31, 36–37, 38–40, 52–54

DCI Disciplinary Core Ideas	
 ETS1.C: Optimizing the Design Solution Because there is always more than one possible solution to a problem, it is useful to compare and test designs. (K–2-ETS1-3) 	30–31, 38–40, 47, 52–54

Other Correlations		
ELD Connections		
ELD.PI.2.6	Teacher's Edition Only: 19, 31	
ELD.PI.2.10	Teacher's Edition Only: 24, 53	
ELD.PI.2.11	Teacher's Edition Only: 19, 46	
ELD.PII.2.5	Teacher's Edition Only: 9	
CCSS ELA/Literacy Connections		
RI.2.3	45, 72, 93	
RI.2.8	18–19, 42, 90	
	Teacher's Edition Only: 45	
W.2.1	Teacher's Edition Only: 19	
W.2.8	93	
	Teacher's Edition Only: 15	
L.2.6	12–13, 33	
	Teacher's Edition Only: 23	
ALSO INTEGRATES:		
SEP Asking Questions and Defining Problems	<i>1</i> 6, 26, <i>30, 38</i>	
SEP Analyzing and Interpreting Data	8–10, 16–17, 23	
SEP Developing and Using Models	30–31, 39, 51, 52–54	

SEP Constructing Explanations and Designing Solutions	38–39
SEP Obtaining, Evaluating, and Communicating Information	12–15, 18–19, 21, 32–35, 42–43, 44–45, 50, <i>52–54</i>
SEP Planning and Carrying Out Investigations	30–31, 36–37, 38–40, 52–54
SEP Engaging in Argument from Evidence	11
DCI ETS1.B: Developing Possible Solutions	38, 51
CCC Energy and Matter: Flows, Cycles, and Conservation	42–43
CCC Patterns	Teacher's Edition Only: 37
CCC Structure and Function	35
ELA W.2.10	45

MODULE: Changes to Materials			
2-PS1	Matter and Its Interactions		
2-PS1-3	Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object. [Clarification Statement: Examples of pieces could include blocks, building bricks, or other assorted small objects.]	63–64, 69–70, 72, 73, 75	
SEP Science a	nd Engineering Practices		
 Constructing Explanations and Designing Solutions Constructing explanations and designing solutions in K–2 builds on prior experiences and progresses to the use of evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions. Make observations (firsthand or from media) to construct an evidence-based account for natural phenomena. (2-PS1-3) 		63–64, 65, 66–67, 69–70, 72, 73, 75	
DCI Disciplina	DCI Disciplinary Core Ideas		
PS1.A: Structure and Properties of Matter 62–64, 65, 6• Different properties are suited to different purposes. (2-PS1-3)97–98, 103• A great variety of objects can be built up from a small set of pieces. (2-PS1-3)		<i>62–64</i> , 65, <i>69–70</i> , 72, 73, 75, 76, 97–98, 103	
CCC Crosscutting Concepts			
 Energy and Matter Objects may break into smaller pieces and be put together into larger pieces, or change shapes. (2-PS1-3) 		59, <i>62–64</i> , 65, 66–67, <i>69–70</i> , 72, 73, 75	

2-PS1	Matter and Its Interactions	
2-PS1-4	Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot. [Clarification Statement: Examples of reversible changes could include materials such as water and butter at different temperatures. Examples of irreversible changes could include cooking an egg, freezing a plant leaf, and heating paper.]	<i>80–82</i> , 83, 85, <i>88</i> , 89, 95, 96

SEP Science and Engineering Practices		
 Engaging in Argument from Evidence Engaging in argument from evidence in K–2 builds on prior experiences and progresses to comparing ideas and representations about the natural and designed world(s). Construct an argument with evidence to support a claim. 	<i>82</i> , 83, 85, <i>88</i> , 89, 95, 96 Teacher's Edition <i>Only</i> : <i>87</i>	
Connections to Nature of Science Science Models, Laws, Mechanisms, and Theories Explain Natural Phenomena • Science searches for cause and effect relationships to explain natural events.	<i>82</i> , 95 Teacher's Edition <i>Only</i> : 92, <i>101</i>	
DCI Disciplinary Core Ideas		
 • PS1.B: Chemical Reactions • Heating or cooling a substance may cause changes that can be observed. Sometimes these changes are reversible, and sometimes they are not. (2-PS1-4) 	77, 79, <i>80–82</i> , 83, 84–85, <i>86–88</i> , 89, 94, 95, 96, 98, 103	
CCC Crosscutting Concepts		
Cause and Effect Events have causes that generate observable patterns. (2-PS1-4) 	85, 88, 95 Teacher's Edition <i>Only</i> : <i>81, 87, 92</i>	

2-PS1	Matter and Its Interactions	
🧼 К–2- ЕТS1-3	Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.	100–102
SEP Science a	nd Engineering Practices	
recording, and sha	Aerpreting Data K—2 builds on prior experiences and progresses to collecting, aring observations. m tests of an object or tool to determine if it works as intended.	100–102
DCI Disciplinary Core Ideas		
• Because there is	ng the Design Solution always more than one possible solution to a problem, it is useful to at designs. (K–2-ETS1-3)	100–102

Other Correlations	
ELD Connections	
ELD.PI. 2.6	Teacher's Edition Only: 85
ELD.PI.2.10	Teacher's Edition Only: 73, 81
ELD.PI.2.11	Teacher's Edition Only: 65
ELD.PII.2.5	Teacher's Edition Only: 75, 101
CCSS ELA/Literacy Connections	
RI.2.3	93
	Teacher's Edition Only: 72
RI.2.8	90–91
W.2.8	93
L.2.6	Teacher's Edition Only: 70, 80
ALSO INTEGRATES:	
SEP Analyzing and Interpreting Data	69–70, 82, 88, 101–102
SEP Asking Questions and Defining Problems	96
SEP Constructing Explanations and Designing Solutions	100–102
	Teacher's Edition Only: 99
SEP Engaging in Argument from Evidence	70, 73
SEP Obtaining, Evaluating, and Communicating Information	84–85, 89, 90–91, 92, 93, 99
SEP Planning and Carrying Out Investigations	62–64, 69–70, 80–82, 86–88 100–102
W.2.10	73

Teacher's Edition Grade 2 · Unit 3

Inspire Science Earth's Changing Landscape





Performance Expectations at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Performance Expectations.

Performance Expectations	MODULE: Landscape Changes
2-ESS1-1	•
2-ESS2-1	•
K–2-ETS1-2	•

Correlations by Module to the NGSS

MODULE: Landscape Changes

2-ESS1	Earth's Place in the Universe		
2-ESS1-1	Use information from several sources to provide evidence that Earth events can occur quickly or slowly. [Clarification Statement: Examples of events and timescales could include volcanic explosions and earthquakes, which happen quickly and erosion of rocks, which occurs slowly.][Assessment Boundary: Assessment does not include quantitative measurements of timescales.]	12–13, <i>17</i> , 18–19, <i>20–21</i> , 22, <i>25</i> , 27, 28, <i>34</i> , 35, 43, <i>44–45</i> , 49 Teacher's Edition <i>Only</i> : 37	
SEP Science a	SEP Science and Engineering Practices		
 Constructing Explanations and Designing Solutions Constructing explanations and designing solutions in K–2 builds on prior experiences and progresses to the use of evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions. Make observations (firsthand or from media) to construct an evidence-based account for natural phenomena. (2-ESS1-1) 		8–10, 11, 12–13, <i>14–17</i> , 18–19, <i>20–21</i> , 22, <i>25</i> , 26, 27, 28, <i>33–34</i> , 35, 36–39, 40–41, 43, <i>44–45</i> , 48, 49	
DCI Disciplinary Core Ideas			
Some events hap	ory of Planet Earth open very quickly; others occur very slowly, over a time period much can observe. (2-ESS1-1)	10, 12–13, <i>17</i> , 18–19, <i>20–21</i> , 22, <i>25</i> , 27, 28, 29, 31, <i>32–34</i> , 35, 36–39, <i>40–41</i> , 42–43, 44–45, 47, 48, 49, 67–68	

CCC Crosscutting Concepts

Stability and Change

• Things may change slowly or rapidly. (2-ESS1-1)

10, 13, 25, 34, 35, 36–39, 41, 49 Teacher's Edition *Only: 16, 33*

2-ESS2	Earth's Systems		
2-ESS2-1	Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land.* [Clarification Statement: Examples of solutions could include different designs of dikes and windbreaks to hold back wind and water, and different designs for using shrubs, grass, and trees to hold back the land.]	58–59, 60–61, 72 Teacher's Edition <i>Only</i> : 57	
SEP Science a	nd Engineering Practices		
Constructing expl and progresses to accounts of nature	Constructing Explanations and Designing Solutions54–55, 58–59, 60–61, 72Constructing explanations and designing solutions in K–2 builds on prior experiences and progresses to the use of evidence and ideas in constructing evidence-based accounts of natural phenomena and designing solutions.54–55, 58–59, 60–61, 72• Compare multiple solutions to a problem. (2-ESS2-1)Teacher's Edition Only: 57		
DCI Disciplina	ary Core Ideas		
	iterials and Systems can change the shape of the land. (2-ESS2-1)	51, <i>54–55</i> , 56–57, <i>60–61</i> , 64, 66, 73	
 ETS1.C: Optimizing the Design Solution Because there is always more than one possible solution to a problem, it is useful to compare and test designs. (secondary to 2-ESS2-1) 		55, 58–59, 71–72	
CCC Crosscut	CCC Crosscutting Concepts		
Stability and Cha • Things may char	nge nge slowly or rapidly. (2-ESS2-1)	Teacher's Edition Only: 55, 61	
	lature of Science es Questions About the Natural and Material World the natural and material world. (2-ESS2-1)	Teacher's Edition <i>Only</i> : 59, 68	
Connections to Engineering, Technology, and Applications of Science Influence of Engineering, Technology, and Science on Society and the Natural World • Developing and using technology has impacts on the natural world. (2-ESS2-1)		Teacher's Edition Only: 68	

K–2	Engineering Design		
K-2- ETS1-2	Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.	<i>54–55, 58–59, 60–61</i> , 65, 69	
SEP Science a	nd Engineering Practices		
Modeling in K–2 b developing mode storyboard) that re	Developing and Using Models54–55, 58–59, 60–61, 69, 70–72Modeling in K–2 builds on prior experiences and progresses to include using and developing models (i.e., diagram, drawing, physical replica, diorama, dramatization, or storyboard) that represent concrete events or design solutions.54–55, 58–59, 60–61, 69, 70–72• Develop a simple model based on evidence to represent a proposed object or tool. (K–2-ETS1-2)(K–2-ETS1-2)		
DCI Disciplina	ry Core Ideas		
ETS1.B: Developing Possible Solutions54–55, 58–59, 60–61, 69, 70–72• Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. (K–2-ETS1-2)54–55, 58–59, 60–61, 69, 70–72		54–55, 58–59, 60–61, 69, 70–72	
CCC Crosscutting Concepts			
Structure and Fur • The shape and s their function(s).	tability of structures of natural and designed objects are related to	58–59 Teacher's Edition <i>Only</i> : 52, 55, 65, 69	

Other Correlations	
ELD Connections	
ELD.PI.2.6	Teacher's Edition Only: 23, 42, 57
ELD.PI.2.11	Teacher's Edition Only: 48, 64
CCSS ELA/Literacy Connections	
RI.2.1	Teacher's Edition Only: 22
RI.2.3	Teacher's Edition Only: 38

ALSO INTEGRATES:	
SEP Analyzing and Interpreting Data	8–10, 17, 25, 41, 55, 59, 61
SEP Asking Questions and Defining Problems	28
SEP Developing and Using Models	14–17, 24–25, 32–34, 40–41
SEP Engaging in Argument from Evidence	11, <i>20–21</i> , 35
SEP Obtaining, Evaluating, and Communicating Information	12–13, 18–19, <i>20–21</i> , 23, 36–39, 42–43, <i>44–45</i> , 50, 56–57, 69
SEP Planning and Carrying Out Investigations	8–10, 14–17, 20–21, 24–25, 28, 32–34, 40–41, 44–45, 54–55, 58–59, 60–61, 70–72
DCI PS1.A: Structure and Properties of Matter	55
CCC Cause and Effect	<i>21</i> , 37, 38, 49, 54 Teacher's Edition <i>Only</i> : <i>15, 33, 47</i>
ELD.PI.2.1	Teacher's Edition Only: 10, 71
ELA W.2.2	63
W.2.7	45
ELA W.2.8	47 Teacher's Edition <i>Only</i> : 17
ELA W.2.11	21
Math 2.OA.1	58

Teacher's Edition Grade 2 · Unit 4









Performance Expectations at a Glance

In this unit, students will discover and practice the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts needed to perform the following Performance Expectations.

Performance Expectations	MODULE: Plants in Landscapes	MODULE: Living Things in Habitats
2-LS2-1	•	
2-LS2-2	•	
K–2-ETS1-1	٠	
2-LS4-1		•

Sorrelations by Module to the NGSS

MODULE: Plants in Landscapes

2-LS2	Ecosystems: Interactions, Energy, and Dynamics		
() 2-LS2-1	Plan and conduct an investigation to determine if plants need sunlight and water to grow. [Assessment Boundary: Assessment is limited to testing one variable at a time.]	8–10, 14–15, 18–19	
SEP Science a	SEP Science and Engineering Practices		
Planning and Carrying Out Investigations8–10, 14–15, 18–19, 22, 25Planning and carrying out investigations to answer questions or test solutions to problems in K–2 builds on prior experiences and progresses to simple investigations, based on fair tests, which provide data to support explanations or design solutions.8–10, 14–15, 18–19, 22, 25• Plan and conduct an investigation collaboratively to produce data to serve as the basis for evidence to answer a question. (2-LS2-1)8–10, 14–15, 18–19, 22, 25			
DCI Disciplinary Core Ideas			
 LS2.A: Interdependent Relationships in Ecosystems Plants depend on water and light to grow. (2-LS2-1) 		5, <i>8–10</i> , 11, 12–13, <i>14–15</i> , 16, <i>18–19</i> , 20, 24, 25, 47 Teacher's Edition <i>Only</i> : 21	
CCC Crosscutting Concepts			
Cause and Effect • Events have cau	ses that generate observable patterns. (2-LS2-1)	Teacher's Edition <i>Only</i> : <i>10, 15, 17, 23,</i> 25	

2-LS2	Ecosystems: Interactions, Energy, and Dynamics		
🦲 2-LS2-2	Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants.*	41–43, 49, 50–52	
SEP Science a	SEP Science and Engineering Practices		
Developing and Using Models41–43, 49, 50–52Modeling in K–2 builds on prior experiences and progresses to include using and developing models (i.e., diagram, drawing, physical replica, diorama, dramatization, or storyboard) that represent concrete events or design solutions.41–43, 49, 50–52• Develop a simple model based on evidence to represent a proposed object or tool. (2-LS2-2)		<i>41–43,</i> 49, 50–52	
DCI Disciplinary Core Ideas			
•	ndent Relationships in Ecosystems n animals for pollination or to move their seeds around. (2-LS2-2)	27, 29, 33, <i>34–35,</i> 38–39, 40, <i>41–43,</i> 44, 45, 46, 48–49, <i>50–52</i> Teacher's Edition <i>Only: 37</i>	
 ETS1.B: Developing Possible Solutions Designs can be conveyed through sketches, drawings, or physical models. These representations are useful in communicating ideas for a problem's solutions to other people. (secondary to 2-LS2-2) 		49	
CCC Crosscutting Concepts			
Structure and Fur • The shape and s their function(s).	tability of structures of natural and designed objects are related to	<i>35,</i> 45, 49 Teacher's Edition <i>Only</i> : <i>31, 42</i>	

K–2	Engineering Design	
() К-2- ETS1-1	Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.	47–48, 50–52
SEP Science and Engineering Practices		
Asking Questions and Defining Problems		47–48
Asking questions and defining problems in K–2 builds on prior experiences and progresses to simple descriptive questions.		Teacher's Edition Only: 50
•	ased on observations to find more information about the natural world(s). (K–2-ETS1-1)	
	problem that can be solved through the development of a new or or tool. (K–2-ETS1-1)	

DCI Disciplinary Core Ideas	
 ETS1.A: Defining and Delimiting Engineering Problems A situation that people want to change or create can be approached as a problem to be solved through engineering. (K–2-ETS1-1) Asking questions, making observations, and gathering information are helpful in thinking about problems. (K–2-ETS1-1) Before beginning to design a solution, it is important to clearly understand the problem. (K–2-ETS1-1) 	47–48 Teacher's Edition <i>Only</i> : 50
Other Correlations	
ELD Connections	
ELD.PI.2.2	Teacher's Edition Only: 24
ELD.PI.2.6	Teacher's Edition Only: 13, 33
ELD.PII.2.6	Teacher's Edition Only: 31
CCSS ELA/Literacy Connections	
W.2.3	Teacher's Edition Only: 35
W.2.4	23
W.2.10	Teacher's Edition Only: 43
ALSO INTEGRATES:	
SEP Analyzing and Interpreting Data	10, 15, 19, 25, 35, 43
SEP Asking Questions and Defining Problems	46
SEP Developing and Using Models	<i>42-43</i> Teacher's Edition <i>Only</i> : <i>31, 37</i>
SEP Engaging in Argument from Evidence	11 Teacher's Edition <i>Only</i> : <i>10</i>
SEP Obtaining, Evaluating, and Communicating Information	12–13, 16, 17, 22–23, 26, 32–33, <i>36–37,</i> 38–39
SEP Planning and Carrying Out Investigations	30–31, 36–37, 41–43, 46
ELD.PI.2.1	Teacher's Edition Only: 9

CCC Structure and Function	Teacher's Edition Only: 13
ELA RI.2.8	38–39
CCSS Math 2.NBT.5	35

	MODULE: Living Things in Habitats		
2-LS4	Biological Evolution: Unity and Diversity		
2-LS4-1	Make observations of plants and animals to compare the diversity of life in different habitats. [Clarification Statement: Emphasis is on the diversity of living things in each of a variety of different habitats.] [Assessment Boundary: Assessment does not include specific animal and plant names in specific habitats.]	55, <i>60–61,</i> 62–65, <i>66–67,</i> 70, 72, 78–81, <i>82–83,</i> 86, 87, <i>94–96, 118</i>	
SEP Science	and Engineering Practices		
Planning and car problems in K–2 based on fair tes	rrying Out Investigations rying out investigations to answer questions or test solutions to builds on prior experiences and progresses to simple investigations, its, which provide data to support explanations or design solutions. ons (firsthand or from media) to collect data, which can be used to ons. (2-LS4-1)	60–61, 66–67, 72, 76–77, 82–83, 86, 87, 89, 94–96, 102–103, 106–107, 111, 116–118 Teacher's Edition <i>Only</i> : 64	
Scientific Knowl	Nature of Science edge is Based on Empirical Evidence r patterns and order when making observations about the world.	Teacher's Edition <i>Only</i> : 63, 71, 72, 79, 85, <i>118</i>	
DCI Disciplinary Core Ideas			
	ity and Humans different kinds of living things in any area, and they exist in different and in water. (2-LS4-1)	57, 60–61, 62–65, 66–67, 68–69, 71, 72, 73, 75, 78–81, <i>82–83,</i> 84–85, 86, 87, 89, 93, <i>94–96</i> , 97, 98–101, <i>103,</i> 104–105, 110, 111, 113–114, 119	

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