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Performance Expectations Waves: Light and Sound

Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. 1-PS4-1

- LITERACY Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups. SL.1.1
- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7
- LITERACY With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question. W.1.8

Make observations to construct an evidence-based account that objects can be seen only when illuminated. 1-PS4-2

- LITERACY Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups. SL.1.1
- LITERACY With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question. W.1.8
- LITERACY Write informative/explanatory texts in which they name a topic, supply some facts about the topic, and provide some sense of closure. W.1.2
- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7

Plan and conduct an investigation to determine the effect of placing objects made with different materials in the path of a beam of light. 1-PS4-3

- LITERACY Participate in collaborative conversations with diverse partners about grade 1 topics and texts with peers and adults in small and larger groups. SL.1.1
- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7
- LITERACY With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question. W.1.8

Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance. 1-PS4-4

- MATH Use appropriate tools strategically. MP.5
- MATH Order three objects by length; compare the lengths of two objects indirectly by using a third object. 1.MD.A.1
- MATH Express the length of an object as a whole number of length units, by layering multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. 1.MD.A.2
- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7

Performance Expectations Structure, Function, and Information Processing

Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.* 1-LS1-1

- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7
- MATH Reason abstractly and quantitatively. MP.2



Performance Expectations Structure, Function, and Information Processing, Continued

Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS1-2

- MATH Compare two two-digit numbers based on the meanings of the tens and one digits, recording the results of comparisons with the symbols <, =, and >. 1.NBT.B.3
- MATH Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning uses. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten. 1.NBT.C.4
- MATH Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used. 1.NBT.C.5
- MATH Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. 1.NBT.C.6
- LITERACY Ask and answer questions about key details in a text. RI.1.1
- LITERACY Identify the main topic and retell key details of a text. RI.1.2
- LITERACY With prompting and support, read informational texts appropriately complex for grade. RI.1.10

Make observations to construct an evidence-based account that young plants and animals are like, but not exactly like, their parents. 1-LS3-1

- MATH Reason abstractly and quantitatively. MP.2
- MATH Use appropriate tools strategically. MP.5
- MATH Order three objects by length; compare the lengths of two objects indirectly by using a third object. 1.MD.A.1
- LITERACY Ask and answer questions about key details in a text. RI.1.1
- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7
- LITERACY With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question. W.1.8

Performance Expectations Space Systems: Patterns and Cycles

Use observations of the sun, moon, and stars to describe patterns that can be predicted. 1-ESS1-1

- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7
- LITERACY With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a guestion. W.1.8

Make observations at different times of year to relate the amount of daylight to the time of year. 1-ESS1-2

- MATH Reason abstractly and quantitatively. MP.2
- MATH Model with mathematics. MP.4
- MATH Use appropriate tools strategically. MP.5
- MATH Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations to represent the problem. 1.OA.A.1
- MATH Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another. 1.MD.C.4
- LITERACY Participate in shared research and writing projects (e.g., explore a number of "how-to" books on a given topic and use them to write a sequence of instructions). W.1.7
- LITERACY With guidance and support from adults, recall information from experiences or gather information from provided sources to answer a question. W.1.8

