Iowa Science

First Grade

Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. 1-PS4-1	**1** **Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.** 1-PS4-1
Make observations to construct an evidencebased account that objects in darkness can be seen only when illuminated. 1-PS4-2	**2** **Make observations to construct an evidencebased account that objects in darkness can be seen only when illuminated.** 1-PS4-2
Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light. 1-PS4-3	**3** **Plan and conduct investigations to determine the effect of placing objects made with different materials in the path of a beam of light.** 1-PS4-3
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	**4** **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
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 me LS1	**5** **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

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Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive. 1-LS1-2	**6** **Read texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.** 1-LS1-2
Make observations to construct an evidencebased account that young plants and animals are like, but not exactly like, their parents. 1-LS3-1	**7** **Make observations to construct an evidencebased account that young plants and animals are like, but not exactly like, their parents.** 1-LS3-1
Use observations of the sun, moon, and stars to describe patterns that can be predicted. 1-ESS1-1	**8** **Use observations of the sun, moon, and stars to describe patterns that can be predicted.** 1-ESS1-1
Make observations at different times of year to relate the amount of daylight to the time of year. 1-ESS1-2	**9** **Make observations at different times of year to relate the amount of daylight to the time of year.** 1-ESS1-2
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. 1-ETS1-1	**10** **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.** 1-ETS1-1
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. 1-ETS1-2	**11** **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.** 1-ETS1-2
An of Skip to main content	**Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.** 1-ETS1-3

to solve the same problem to compare the strengths and weaknesses of how each performs. 1-ETS1-3