

Iowa Common Core Standards for Science

4-H Youth Development Curriculum and Kits from Iowa State University Extension and Outreach, Scott County

Name	Target Grade	Number of Lessons	Iowa Core Content Anchor Standard in Science	Specific Standard(s)
STEM-Lit To Go II!	K-3	12	Physical Science Life Science Earth & Space Sciences Engineering, Technology & Applications of Science	<p><u>Kindergarten</u> Make observations to determine the effect of sunlight on Earth's surface. (K-PS3-1) Use observations to describe patterns of what plants and animals (including humans) need to survive. (K-LS1-1) Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. (K-ESS3-1) 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. (K-2-ETS1-2) Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. (K-2-ETS1-3)</p> <p><u>Grade One</u> Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate. (1-PS4-1)</p> <p><u>Grade Two</u> Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot. (2-PS1-4) Make observations of plants and animals to compare the diversity of life in different habitats. (2-LS4-1) 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. (K-2-ETS1-2) Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs. (K-2-ETS1-3)</p> <p><u>Grade Three</u> Plan and conduct an investigation to provide evidence of the effects of balanced and unbalanced forces on the motion of an object. (3-PS2-1) Make observations and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion. (3-PS2-2) Define a simple design problem reflecting a need or a want that includes specified criteria</p>

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STEM-Lit To Go II!	K-3	12	Physical Science Life Science Earth & Space Sciences Engineering, Technology & Applications of Science	for success and constraints on materials, time, or cost. (3-5-ETS1-1) Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. (3-5-ETS1-2) Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. (3-5-ETS1-3)