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)
Seed Secrets	K-5	6	Physical Science Life Science Earth & Space Sciences Engineering, Technology & Applications of Science	Kindergarten 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)** Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. **(K-ESS2-2)** 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-ETS1-3)** Grade One 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)** 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-ETS1-3)** Grade Two Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties. **(2-PS1-1)** Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose. **(2-PS1-2)** Plan and conduct an investigation to determine if plants need sunlight and water to grow. **(2-LS2-1)**

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Seed Secrets	K-5	6	Physical Science Life Science Earth & Space Sciences Engineering, Technology & Applications of Science	Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants. **(2-LS2-2)** 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-ETS1-3)** Grade Three Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. **(3-LS1-1)** Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms. **(3-LS3-1)** Use evidence to support the explanation that traits can be influenced by the environment. **(3-LS3-2)** Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all. **(3-LS3-2)** Grade Four Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction. **(4-LS1-1)** Grade Five Support an argument that plants get the materials they need for growth chiefly from air and water. **(5-LS1-1)** Support an argument that the gravitational force exerted by Earth on objects is directed down. **(5-PS2-1)**