

# 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)
Ocean Currents	5-8	6	Physical Science Life Science Earth & Space Sciences	<p><u>Grade Five</u> Support an argument that the gravitational force exerted by Earth on objects is directed down. <b>(5-PS2-1)</b> Support an argument that plants get the materials they need for growth chiefly from air and water. <b>(5-LS1-1)</b></p> <p><u>Grade Six</u> Develop models to describe the atomic composition of simple molecules and extended structures. <b>(MS-PS1-1)</b> Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred. <b>(MS-PS1-2)</b> Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process. <b>(MS-ESS2-1)</b></p> <p><u>Grade Seven</u> Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem. <b>(MS-LS2-3)</b> Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations. <b>(MS-LS2-4)</b></p> <p><u>Grade Eight</u> Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity. <b>(MS-ESS2-4)</b> Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine regional climates. <b>(MS-ESS2-6)</b> Ask questions to clarify evidence of the factors that have caused the rise in global temperatures over the past century. <b>(MS-ESS3-5)</b></p>