

Grades 3, 4, 5

Adopted 2013

Understandings about the Nature of Science

1. Scientific Investigations Use a Variety of Methods AH.1

1. Science methods are determined by questions. 3-5.AH.1.1
 2. Science investigations use a variety of methods, tools, and techniques. 3-5.AH.1.2
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2. Scientific Knowledge is Based on Empirical Evidence AH.2

1. Science findings are based on recognizing patterns. 3-5.AH.2.1
 2. Scientists use tools and technologies to make accurate measurements and observations. 3-5.AH.2.2
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3. Scientific Knowledge is Open to Revision in Light of New Evidence AH.3

1. Science explanations can change based on new evidence. 3-5.AH.3.1
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4. Science Models, Laws, Mechanisms, and Theories Explain Natural Phenomena AH.4

1. Science theories are based on a body of evidence and many tests. 3-5.AH.4.1
 2. Science explanations describe the mechanisms for natural events. 3-5.AH.4.2
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5. Science is a Way of Knowing AH.5

1. Science is both a body of knowledge and processes that add new knowledge. 3-5.AH.5.1
 2. Science is a way of knowing that is used by many people. 3-5.AH.5.2
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6. Scientific Knowledge Assumes an Order and Consistency in Natural Systems AH.6

1. Science assumes consistent patterns in natural systems. 3-5.AH.6.1
 2. Basic laws of nature are the same everywhere in the universe. 3-5.AH.6.2
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7. Science is a Human Endeavor AH.7

1. Men and women from all cultures and backgrounds choose careers as scientists and engineers. 3-5.AH.7.1
2. Most scientists and engineers work in teams. 3-5.AH.7.2
3. Science affects everyday life. 3-5.AH.7.3
4. Creativity and imagination are important to science. 3-5.AH.7.4

8. Science Addresses Questions About the Natural and Material World. AH.8

1. Science findings are limited to what can be answered with empirical evidence. 3-

5.AH.8.1