

Nature of Science Rubric Scale

1. Overarching Nature of Science Idea

Connect their understanding to real world scientific practices and ideas to own classroom experiences (e.g., discussion, laboratory activities).

Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

2. Scientific Investigations Use a Variety of Methods

Describes multiple ways (e.g., methods, tools, theoretical underpinnings) science is conducted.

Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

3. Scientific Knowledge is Based on Empirical Evidence

Identifies accurate examples of data used for evidence.

Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

4. Scientific Knowledge is Open to Revision in Light of New Evidence

Open to input from multiple sources.

Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

5. Scientific Models, Laws, Mechanisms, and Theories Explain Natural Phenomena

Compares and contrasts historical and modern day ideas about natural phenomena. Can generate models to explain phenomenon.

Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

6. Science is a Way of Knowing

Communicates specific examples of how science is used to solve problems in the real world.
Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

7. Scientific Knowledge Assumes an Order and Consistency in Natural Systems

Identifies patterns in data and can infer future outcomes from pattern.
Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

8. Science is a Human Endeavor

Identifies that science is a unique practice to humans.
Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

9. Science Addresses Questions About the Natural and Material World.

Identifies natural cause for events observed in the classroom and science; explains how science interprets the natural phenomenon.
Mark only one oval.

	1	2	3	4	5	
Beginning	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Advanced

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