

First Grade Science Rubric 10-11

Science				
Nature of Science	3	2	1	Evidence (Optional)
Uses scientific methods to problem solve	Uses scientific methods to problem solve. (asks questions, makes predictions and observations, explores tools, and collects data)	Uses MOST scientific methods to problem solve. (asks questions, makes predictions and observations, explores tools, and collects data)	Uses SOME scientific methods to problem solve. (asks questions, makes predictions and observations, explores tools, and collects data)	Teacher Toolbox
Physical Science	3	2	1	
Investigates the properties of magnetism	Identifies objects that are attracted to a magnet AND identifies objects or materials that do not block magnetic force.	Identifies objects that are attracted to a magnet.	Cannot identify objects that are attracted to a magnet.	Teacher Toolbox
Investigates the properties of sound AND light	Describes AND differentiates the properties of sound (pitch, volume, vibrations; i.e. emergency sounds) AND recognizes light sources AND how shadows are made.	Describes the properties of sound (pitch, volume, vibrations; i.e. emergency sounds) AND recognizes light sources AND how shadows are made.	Cannot describe, differentiate, AND/OR recognize the properties of sound (pitch, volume, vibrations; i.e. emergency sounds) AND recognizes light sources AND how shadows are made.	Teacher Toolbox
Earth Science	3	2	1	
Investigates weather and climate	Makes AND records observations about daily weather using weather instruments.	Makes OR records observations about daily weather using weather instruments.	Cannot make OR record observations about daily weather using weather instruments.	Teacher Toolbox
Investigates how changes in water affect weather	Identifies forms of precipitation based on water phase (types) AND determines the characteristics of water as the phases change. (liquid to solid)	Identifies forms of precipitation based on water phase (types) OR determines the characteristics of water as the phases change. (liquid to solid)	Cannot identify the forms of precipitation based on water phase (types) AND cannot determine the characteristics of water as the phases change. (liquid to solid)	Teacher Toolbox
Life Science	3	2	1	

Investigates the basic needs of a plant	Identifies the basic needs of a plant (Air, Water, Light, Nutrients) AND identifies parts of a plant (root, stem, leaf, flower).	Identifies the basic needs of a plant (Air, Water, Light, Nutrients) OR identifies parts of a plant (root, stem, leaf, flower).	Cannot identify the basic needs of a plant (Air, Water, Light, Nutrients) AND cannot identify the parts of a plant (root, stem, leaf, flower).	Teacher Toolbox
Investigates the basic needs of an animal	Identifies the basic needs of an animal (Air, Water, Food, Shelter) AND compares various animals (appearance, motion, growth, basic needs).	Identifies the basic needs of an animal (Air, Water, Food, Shelter) OR compares various animals (appearance, motion, growth, basic needs).	Cannot identify the basic needs of an animal (Air, Water, Food, Shelter) AND cannot compare various animals (appearance, motion, growth, basic needs).	Teacher Toolbox

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