

Standards Based Report Card Rubric: 3rd Grade Science 2019-2020

Standard Description	Assessment of Mastery		
	<u>Met Standard (MS)</u>	<u>Approaching Standard (AS)</u>	<u>Insufficient Progress toward the Standard (IPS)</u>
1st Grading Period			
<i>Collects data by observing and using metric measuring tools during experiments and labs</i>	Independently constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements	Constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements with support	Tables and charts are constructed in a disorganized way, observations are not relevant, and struggles to use tools or record data properly
<i>Constructs visuals to organize, examine, and evaluate measured data</i>	Independently constructs visuals to organize measured data, then examines and evaluates for scientific understanding	Constructs visuals and organizes measured data properly with assistance	Constructs visuals in a random or disorganized way and struggles to organize measured data.
<i>Uses experimental and observational evidence to evaluate a scientific idea in a logical way</i>	Independently conducts tests and observations, then uses that evidence to explain a scientific idea	Conducts tests and observations, then uses that evidence to explain a scientific idea with guidance or suggestions	Explanations of scientific ideas are not cohesive and/or lacking evidence from experimentation or observation
<i>Measures, describes, and classifies matter based on physical properties</i>	Actively participates in and chooses the appropriate materials for all investigations, while following all safety guidelines	Attempts to participate in or choose the appropriate materials for an investigation, while following all safety guidelines with some assistance	Participation is limited, chooses inappropriate materials, or does not follow safety guidelines during investigations
<i>Conducts experiments to predict and record changes in matter (heating and cooling)</i>	Independently predicts, observes, and records the changes caused by heating or cooling of different objects.	Predicts, observes, and records the changes caused by heating or cooling of different objects with some assistance	Predictions or observations about changes caused by heating or cooling of different objects are random or inaccurate

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2nd Grading Period			
<i>Collects data by observing and using metric measuring tools during experiments and labs</i>	Independently constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements	Constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements with support	Tables and charts are constructed in a disorganized way, observations are not relevant, and struggles to use tools or record data properly
<i>Constructs visuals to organize, examine, and evaluate measured data</i>	Independently constructs visuals to organize measured data, then examines and evaluates for scientific understanding	Constructs visuals and organizes measured data properly with assistance	Constructs visuals in a random or disorganized way and struggles to organize measured data.
<i>Uses experimental and observational evidence to evaluate a scientific idea in a logical way</i>	Independently conducts tests and observations, then uses that evidence to explain a scientific idea	Conducts tests and observations, then uses that evidence to explain a scientific idea with guidance or suggestions	Explanations of scientific ideas are not cohesive and/or lacking evidence from experimentation or observation
<i>Demonstrates how position and motion of an object can change by pushing and pulling</i>	Independently conducts experiments involving pushing or pulling forces to validate predictions about where objects will move, bounce, or land	Conducts experiments involving pushing or pulling forces on objects with guidance or needs assistance to make accurate predictions about where objects will move, bounce, or land	Experiments involving pushing or pulling forces are disorganized and disconnected from establishing where objects will move, bounce, or land

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3rd Grading Period			
<i>Collects data by observing and using metric measuring tools during experiments and labs</i>	Independently constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements	Constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements with support	Tables and charts are constructed in a disorganized way, observations are not relevant, and struggles to use tools or record data properly
<i>Constructs visuals to organize, examine, and evaluate measured data</i>	Independently constructs visuals to organize measured data, then examines and evaluates for scientific understanding	Constructs visuals and organizes measured data properly with assistance	Constructs visuals in a random or disorganized way and struggles to organize measured data.
<i>Uses experimental and observational evidence to evaluate a scientific idea in a logical way</i>	Independently conducts tests and observations, then uses that evidence to explain a scientific idea	Conducts tests and observations, then uses that evidence to explain a scientific idea with guidance or suggestions	Explanations of scientific ideas are not cohesive and/or lacking evidence from experimentation or observation
<i>Uses models to represent natural phenomena and can identify limitations of models</i>	Independently creates models to represent natural phenomena and identifies more than one limitation of the model	Creates models to represent the natural world and identifies more than one limitation of the model with assistance	Attempts to create a model but it does not accurately represent a phenomenon and struggles to identify limitations of models
<i>Explores and records how different types of soils are formed</i>	Independently observes, records, and explains how soil is formed from weathering of rocks along with decomposing plant and animal remains	Observes and records independently, but needs assistance relating the processes of weathering and decomposition to soil formation	Displays limited understanding of the make up of soils and how the processes of weathering and decomposition can create soil

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4th Grading Period			
<i>Collects data by observing and using metric measuring tools during experiments and labs</i>	Constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements	Constructs tables and charts, then collects data through observations and measurements, then appropriately records measurements with prompting/support	Tables and charts are constructed in a disorganized way, observations are not relevant, and struggles to use tools or record data properly
<i>Constructs visuals to organize, examine, and evaluate measured data</i>	Constructs visuals to organize measured data, then examines and evaluates for scientific understanding	Constructs visuals and organizes measured data properly with assistance	Constructs visuals in a random or disorganized way and struggles to organize measured data.
<i>Uses experimental and observational evidence to evaluate a scientific idea in a logical way</i>	Independently conducts tests and observations, then uses that evidence to explain a scientific idea	Conducts tests and observations, then uses that evidence to explain a scientific idea with guidance or suggestions	Explanations of scientific ideas are not cohesive and/or lacking evidence from experimentation or observation
<i>Uses models to represent natural phenomena and can identify limitations of models</i>	Creates models to represent natural phenomena and identifies more than one limitation of the model	Creates models to represent the natural world and identifies more than one limitation of the model with assistance	Attempts to create a model but it does not accurately represent a phenomenon and struggles to identify limitations of models
<i>Observes the physical characteristics of environments and describes how they support living things within an ecosystem.</i>	Describes two or more environments using at least three unique physical characteristics and explains how those characteristics support plant and animal populations/communities within those environments	Describes one environment using one or two unique physical characteristics or partially explains how those characteristics support plant and animal populations/communities within those environments	Descriptions of physical characteristics in an environment are unclear or inaccurate and lack connection to supporting plant and animal populations/communities within those environments