

Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five	Grade Six	Grade Seven	Grade Eight
___ I can use my senses to tell about my ideas.	___ I can ask others to explain their ideas and use what I know to explain my ideas.	___ I can ask questions and use facts to explain my answers.	___ I can ask questions and use facts to explain my answers.	___ I can ask questions and use facts to explain my answers.	___ I can ask questions and use facts to explain my answers.	___ I can communicate results in a variety of ways.	___ I can communicate results in a variety of ways.	___ I can communicate results in a variety of ways.
___ I can see what may happen and tell what I observe.	___ I can see what may happen when I try different things, then observe and compare what happens.	___ I can explain, write, or draw to communicate my ideas.	___ I can explain, write or draw to communicate my ideas.	___ I can explain and demonstrate how/that the solution addresses the problem.	___ I can recognize that clear communication of methods, findings and critical review is an essential part of doing science.	___ I can describe how collaboration can be a useful way to solve scientific problems.	___ I can describe how collaboration can be a useful way to solve scientific problems.	___ I can describe how collaboration can be a useful way to solve scientific problems.
___ I can group things using my senses.	___ I can group objects according to their properties.	___ I can observe, compare, and contrast properties.	___ I can observe and compare properties.	___ I can observe a problem and determine the steps needed to solve it.	___ I can observe, compare and contrast scientific findings .	___ I can explain that different kinds of scientific questions may lead to different types of scientific investigations.	___ I can explain that different kinds of scientific questions may lead to different types of scientific investigations.	___ I can explain that different kinds of scientific questions may lead to different types of scientific investigations.
___ I can measure using non-standard units.	___ I can measure using scientific tools.	___ I can identify and group objects according to their properties.	___ I can identify and group according to properties.	___ I can group according to properties and/or purpose.	___ I can conduct controlled experiments to find out how variables affect outcomes.	___ I can use appropriate steps to create a plan using the scientific method.	___ I can use appropriate steps to create a plan using the scientific method.	___ I can use appropriate steps to create a plan using the scientific method.
___ I can predict what will happen by observing and doing.	___ I can predict what will happen by observing, doing and past experiences.	___ I can measure using non-standard and standard units.	___ I can use appropriate metric measurements and tools to collect and organize data.	___ I can use appropriate measurement tools.	___ I can compare and contrast characteristics within a system.	___ I can carry out various investigations using the appropriate steps of the scientific method.	___ I can carry out various investigations using the appropriate steps of the scientific method.	___ I can carry out various investigations using the appropriate steps of the scientific method.
___ I can share my ideas about why I think something happened.	___ I can explain what happened about a specific event based on observations and past experiences.	___ I can make predictions using my observation and past experiences.	___ I can create a plan to test my predictions.	___ I can make predictions and test them using trial and error.	___ I can use appropriate metric measurement and tools to collect and organize data.	___ I can collect data and make observations by analyzing trends in various collections at an age-appropriate level.	___ I can collect data and make observations by analyzing trends in various collections at an age-appropriate level.	___ I can collect data and make observations by analyzing trends in various collections at an age-appropriate level.
___ I can tell there are changes in nature by using my senses.	___ I can tell what I've learned from my observations and experiments.	___ I can use my past experiences and knowledge to explain outcomes.	___ I can make predictions about scientific investigations.	___ I can use my past experiences and knowledge to explain scientific events.	___ I can make predictions and test them using a controlled experiments.	___ I can use appropriate metric measurements and tools to collect and organize data.	___ I can use appropriate metric measurements and tools to collect and organize data.	___ I can use appropriate metric measurements and tools to collect and organize data.
		___ I can tell what I've learned from my observations and experiments and draw conclusions.	___ I can use my past experiences and knowledge to explain scientific events.	___ I can draw a conclusion based on observations and experiments.	___ I can identify variables that might affect the outcome of an experiment.	___ I can formulate a hypothesis to create a written plan for investigation.	___ I can formulate a hypothesis to create a written plan for investigation.	___ I can formulate a hypothesis to create a written plan for investigation.
			___ I can draw a conclusion based on observations and experiments.		___ I can draw a conclusion based on observations and experiments.	___ I can build and create models to make observations and predict an outcome.	___ I can build and create models to make observations and predict an outcome.	___ I can build and create models to make observations and predict an outcome.
						___ I can identify and predict cause-effect relationships within a system.	___ I can identify and predict cause-effect relationships within a system.	___ I can identify and predict cause-effect relationships within a system.

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						___ I can explain how scientific knowledge changes as new knowledge is acquired and previous theories are modified.	___ I can explain how scientific knowledge changes as new knowledge is acquired and previous theories are modified.	___ I can explain how scientific knowledge changes as new knowledge is acquired and previous theories are modified.
						___ I can describe the relationship between evidence and explanations at an age-appropriate level.	___ I can describe the relationship between evidence and explanations at an age-appropriate level.	___ I can describe the relationship between evidence and explanations at an age-appropriate level.
						___ I can explain that the same experiment must have comparable results.	___ I can explain that the same experiment must have comparable results.	___ I can explain that the same experiment must have comparable results.
						___ I can explain that new scientific ideas can emerge from unexpected findings.	___ I can explain that new scientific ideas can emerge from unexpected findings.	___ I can explain that new scientific ideas can emerge from unexpected findings.