

Module	Lesson	Description	Scored
0.5 Credit	Credit Recovery		
<b>01: Introducing Science</b>			
	Scientific Literacy	In this lesson students discover the importance of being scientifically literate, and learn how to interpret information.	No
	Skills Used by Scientists	This lesson describes the thinking skills a scientist needs in order to learn about the world.	Yes
	Safety	In this lesson students classify experimental habits as safe or unsafe.	Yes
	Branches of Science	This lesson presents the three main branches of science and the topics that fall under each branch.	Yes
	Science in Careers	This lesson describes how science skills are important in science and non-science careers.	Yes
<b>01: Posttest</b>			
<b>02: The Scientific Method</b>			
	Forming a Hypothesis	In this lesson students learn how observations and curiosity lead to testable, scientific questions and hypotheses.	Yes
	Designing an Experiment	This lesson focuses on how to design an experiment with proper consideration to variables and controls.	Yes
	Concluding an Experiment	In this lesson students learn to conclude an experiment by analyzing their data, comparing it to the original hypothesis, and communicating the results.	Yes
	Scientific Theories and Laws	This lesson introduces students to the differences between scientific theories and laws.	Yes
<b>02: Posttest</b>			
<b>03: Simple Units of Measurement</b>			
	Measurement Systems	In this lesson students learn how systems of measurement developed historically.	No
	Standard Unit of Measurement	This lesson defines the language that is essential for all good scientific communication.	Yes
	Measuring Length	In this lesson students learn about the standard unit of length and how to measure the length of an object.	Yes
	Measuring Mass	This lesson describes the standard unit of mass, how to obtain the mass of an object, and the difference between mass and weight.	Yes
	Measuring Time and Temperature	In this lesson students learn the standard units of measurement for time and temperature.	Yes
<b>03: Posttest</b>			
<b>04: Units of Measurement Calculations</b>			

## MS: Science and Technology (Sequential) Course Outline

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	Determining Volume	This lesson introduces students to three different ways of obtaining the volume of an object.	Yes
	Calculating Density	In this lesson students learn how to calculate density from mass and volume.	Yes
	Converting Between Units	This lesson teaches students how to convert from one standard unit to another using conversion factors.	Yes
	<b>04:Posttest</b>		
<b>05:Mathematics in Science</b>			
	Estimation, Accuracy, and Precision	In this lesson students discover why estimation is important to scientists, and learn the difference between accuracy and precision.	Yes
	Significant Figures and Error	This lesson discusses the number of significant figures to be included in a calculation based on operation, and shows how to calculate the percent error.	Yes
	Mean, Median, and Mode	In this lesson students learn that mean, median, and mode are different ways of determining an average.	Yes
	<b>05:Posttest</b>		
<b>06:Creating and Interpreting Line Graphs</b>			
	Creating a Line Graph	In this lesson students learn why graphs are useful in science and how to plot a line graph.	Yes
	Interpreting Graph Trends	This lesson introduces slope calculations and categories of data trends in graphs.	Yes
	<b>06:Posttest</b>		
<b>07:Understanding Technology</b>			
	Technology and Design in History	In this lesson students learn how everyday technology developed over time.	No
	Technology in Science	This lesson defines technology and describes how it relates to science.	Yes
	How Technology Progresses	In this lesson students learn about the various classifications for technology as it is absorbed into society.	Yes
	Parts of Technological Systems	In this lesson students learn why technology is considered a system and the parts of a system.	Yes
	<b>07:Posttest</b>		
<b>08:Technology Design Skills</b>			
	Researching the Problem	This lesson discusses how engineers identify and research a problem.	Yes

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	Designing a Solution	In this lesson students explore the processes used by engineers to find the best solution to a problem.	Yes
	Prototype, Troubleshoot, Redesign	This lesson explains the need for building a prototype to first test a product and then revise its design.	Yes
	Communicating the Solution	This lesson explores the ways that engineers communicate about their products and acquire legal ownership of their inventions.	Yes
	<b>08:Posttest</b>		
<b>09:Technology and Society</b>			
	How Technology Impacts Society	This lesson describes how new technology can positively and negatively impact society.	Yes
	Risk Benefit Analysis	In this lesson students learn to evaluate the positive and negative impacts of technology in order to decide how to use it.	Yes
	<b>09:Posttest</b>		