

6 th grade Earth Science	S6E1a Models of solar system	S6E1b Position of solar system	S6E1c Planets: Size, Features, Distance & Life	S6E1d Motion of objects in the sky	S6E1e Role of gravity in solar system	S6E1f Comets, asteroids, & meteors	S6E2a Phases of the moon	S6E2b Alignment during eclipses	S6E2c Tilt of earth & effect on seasons	S6E3a Water on the earth's surface	S6E3b Oceans: composition, location, and ocean floor	S6E3c Waves, currents, & tides	S6E4a Effect of unequal heating rates	S6E4b Wind systems & weather events	S6E4c Effect of oceans on weather	S6E5a Crust, mantle, core; temperature, density, and composition	S6E5b Rock Classification	S6E5c Processes that change rocks & the earth's surface	S6E5d Cause of geological events and lithospheric plates	S6E5e Effects of physical processes on geological features	S6E5f Fossils as evidence	S6E5g Soil composition	S6E5h Humans & erosion	S6E5i Conserving natural resources	S6E6a Role of sun and its relation to wind and water energy	S6E6b Identify Renewable and Nonrenewable resources
A Tangled Web										x																X
Mapping It Out										x																x
It's Clear to Me																										X
From H to OH																										
Pollution – Take It or Leave It										x	x															
Grab Gram																										
Stone Soup																	X									
Carts and Horses																										
Hitting the Mark																										
Multiple Perspectives											x		x		X											
A Snapshot in Time																										
Water Quality Monitoring																										
Turbidity or Not Turbidity										x											x					
Footprints on the Sand																										x
Looks Aren't Everything										X																
Setting the Standards										X																
Wash It Away																										
Life and Death Situation										X																
There is no Point to this Pollution										X					x											X
Washing Water										X																x
Benthic Bugs and Bioassessment										X																
Water Quality Windows										X																
Invertebrates as Indicators										X																
Picking Up the Pieces										X							x									
Going Underground										x							x									

7 th Grade Life Science	S7L1a Develop dichotomous key	S7L1b Classifying 6 kingdoms and key	S7L2a Cells grow, divide, and produce	S7L2b Cell structures	S7L2c Cells, tissues, organs,	S7L2d Cells' needs for oxygen, food, and waste	S7L2e Major organ systems	S7L3a Roles of genes and chromosomes	S7L3b Compare and contrast	S7L3c Selective breeding	S7L4a Demonstrate food web energy transfer	S7L4b Energy movement through web	S7L4c Changes can affect survival.	S7L4d Competitive or mutually beneficial	S7L4e Terrestrial biomes and aquatic	S7L5a Changes of characteristics over successive generations	S75b Natural selection	S7L5c Fossils as evidence
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Footprints on the Sand																		
Looks Aren't Everything	X												x			x		
Setting the Standards													X					
Wash It Away						X			x							x		
Life and Death Situation						x							X					
There is no Point to this Pollution													X					
Washing Water																		
Benthic Bugs and Bioassessment						x			x				X					
Water Quality Windows						x			x				x			X		
Invertebrates as Indicators																		
Picking Up the Pieces																		
Going Underground																		

Middle School Science Characteristics	S7CS1a	S7CS1b	S7CS2a	S7CS2b	S7CS2c	S7CS3a	S7CS3b	S7CS3c	S7CS3d	S7CS3e	S7CS3f	S7CS4a	S7CS4b	S7CS4c	S7CS5a	S7CS5b	S7CS6a	S7CS6b	S7CS6c	S7CS7a	S7CS7b	S7CS7c	S7CS7d	S7CS8a	S7CS8b	S7CS8c	S7CS9a	S7CS9b	S7CS9c	S7CS9d	S7CS9e	S7CS9f	S7CS10a	S7CS10b	S7CS10c	S7CS10d		
	Honest, clear, accurate records	Value of hypotheses	Correct procedures for apparatus	Appropriate laboratory techniques	Identify and report safety problems	Data (using, interpreting, comparing numbers)	Mean, median, mode to analyze data	Metric system including metric to metric conversions	Conclusions based on analyzed data	Degree of precision and rounding off answers	Accuracy and precision	Appropriate technology for information	Appropriate measurement tools	Safety practices	How parts are related in other parts in a system	Models to represent	Clear Step-by-step instructions	Writing for scientific	Tables, charts, graphs	Questions claims	Identify flaws in reasoning	Question value of arguments based on data	Recognize that interpretations may vary	Trivial or significant differences in results	Critically assess the quality of data	Theories may change with new knowledge	Reasons for scientific investigations	Investigations involve collected evidence	Effect of variables on an investigation	Collaboration to design research	Accuracy is essential for credibility	Ethics of science research	Reading in all curriculum areas	Discussing books	Building vocabulary	Establishing context		
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Pollution – Take It or Leave It																																						
Grab Gram							x					x	X																									
Stone Soup																																						
Carts and Horses																										x	x	x	x	x	x	x						
Hitting the Mark	x	x				x			x	X																												
Multiple Perspectives																				x	x	x	X															
A Snapshot in Time						X																																
Water Quality Monitoring												x	x	x			x	X	x								x	x	x	x	x	x						
Turbidity or Not Turbidity																																						
Footprints on the Sand																																						
Looks Aren't Everything						X						x	x	x	X	x																						
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Water Quality Windows						X																																
Invertebrates as Indicators						X																																
Picking Up the Pieces	x																x	x	x	x	x	x	X															
Going Underground												x	x	x						x	x	x																

High School Characteristics of Science	SCSh1 Students will evaluate the importance of curiosity, honesty, openness, and skepticism in science.	SCSh2 Students will use standard safety practices for all classroom laboratory and field investigations.	SCSh3 Students will identify and investigate problems scientifically.	SCSh4 Students will use tools and instruments for observing, measuring, and manipulating scientific equipment and materials.	SCSh5 Students will demonstrate the computation and estimation skills necessary for analyzing data and developing reasonable scientific explanations.	SCSh6 Students will communicate scientific investigations and information clearly.	SCSh7 Students will analyze how scientific knowledge is developed. Students will recognize that:	SCSh8 Students will understand important features of the process of scientific inquiry. Students will apply the following to inquiry learning practices:	SCSh9 Students will enhance reading in all curriculum areas by:
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