

Key

WU: Warm-Up, AC: Application of Content, GS: Getting Started,
 MT: Module Test, MAA: Module Authentic Assessment,
 MS: Module Summary

Assignment Checklist

Earth Science

Topic/Page In Course	Activity Title	Activity Type	Total Points	Date Completed	Points Earned
Module 1: What is Earth Science?					
GS	Earth Science Bubble Pop	Game			
1.1 WU	Earth Scientist Challenge	Game			
1.1 AC	Earth Scientist Baseball Cards	Baseball Card Design			
1.2 WU	Inference or Observation?	Interactivity			
1.2 AC	Scientific Investigation Design	Scientific Investigation			
1.3 WU	Temperature Conversion	Interactivity			
1.3 AC	Part A: Measurement Problem Set	Problem Set			
	Part B: Measurement Across the World	Discussion			
MAA	Earth Science Career Profile	Job Profile and Reflection			
MT	Module Test	Test			
Module 2: Mapping					
GS	World Race	Game			
2.1 WU	Constructing a Map	Audio Map Creation			
2.1 AC	Mapping the World	Mapping			
2.2 WU	Five Map Elements	List			
2.2 AC	Mystery of the Missing Artifacts	Puzzle			
2.3 WU	USGS: Did You Know?	Fact			
2.3 AC	Analyze Country Estate	Map Analysis			
2.4 WU	GPS vs. Maps	Discussion/Video			
2.4 AC	Travel with Satellite Imagery Checkpoint Table	Mapping and GPS Use			
MAA	Interview a Cartographer	Interview and Reflection			
MT	Module Test	Test			
Module 3: Astronomy – The Universe					
GS	Space Race	Game			
3.1 WU	<i>Evidence for the Big Bang Theory</i>	Video and Think About			
3.1 AC	The Big Bang Theory	Check for Understanding			
3.2 WU	Carl Sagan Quote	Discussion			
3.2 AC	Part A: Galaxies Venn Diagram	Graphic Organizer			
	Part B: Galaxy and Milky Way Wordle™	Wordle™			

3.3 WU	What is a Cycle?	Think About			
3.3 AC	Stellar Evolution Comic Strip	Comic Strip			
3.4 WU	The Doppler Effect	Audio File and Think About			
3.4 AC	The Electromagnetic Spectrum and the Doppler Effect Fact Checker	Fact Checker			
3.5 WU	Telescopes and Other Tools	Observation			
3.5 AC	Using a Virtual Telescope Scientific Investigation	Virtual Scientific Investigation			
3.6 WU	Archaeoastronomy: Did You Know?	Fact and Roll-Over			
3.6 AC	Early Astronomers	Quiz			
3.7 WU	The International Space Station	URL			
3.7 AC	Modern Astronomy Contribution	Discussion			
MAA	Visit a Real-Life or Virtual Planetarium	Planetarium Visit and Reflection			
MT	Module Test	Test			
MS	Module Survey	Survey			
Module 4: Astronomy – The Solar System					
GS	Your Place in the Solar System	Think About			
4.1 WU	The Meaning of Proto-	Fact			
4.1 AC	Solar Nebula Creation Story	Short Story			
4.2 WU	The Impact of the Sun	Discussion			
4.2 AC	Pinhole Viewer Scientific Investigation	Hands-On Scientific Investigation			
4.3 WU	Terrestrial Planets Characteristics	List			
4.3 AC	Planet Graphic Organizer, Part I	Graphic Organizer			
4.4 WU	Jovian Planets Characteristics	List			
4.4 AC	Planet Graphic Organizer, Part II	Graphic Organizer			
4.5 WU	<i>Comets Bombard the Early Earth</i>	Video			
4.5 AC	Other Members of the Solar System Quiz	Quiz			
4.6 WU	<i>Moon Movement</i>	Video Prompt and Discussion			
4.6 AC	Lunar Phases Scientific Investigation	Hands-On Scientific Investigation			
4.7 WU	Sun, Moon, Earth Alignments Sketch	Sketch			
4.7 AC	Sun, Moon, Earth Alignments Models	Modeling and Pictures			
MAA	Solar System Project Design	Project Design and Completion			
MT	Module Test	Test			
Module 5: Minerals					

GS	Minerals in the Bathroom	Interactivity			
5.1 WU	Matter	Thinking			
5.1 AC	Design a Silicon Atom	Model			
5.2 WU	Natural Mineral Resources	Discussion			
5.2 AC	Composition of Minerals	Graphic Organizer			
5.3 WU	Classification of Minerals	List			
5.3 AC	Mineral Identification	Virtual Scientific Investigation			
MAA	Minerals in Your Electronics	Google Earth™			
MT	Module Test	Test			
Module 6: Rocks					
GS	Rocks	Interactivity			
6.1 WU	Rock-Forming Minerals	Interactivity			
6.1 AC	Igneous Rock Collection	Observation/ Scientific Investigation			
6.2 WU	The Grand Canyon: Did You Know?	Fact and Video			
6.2 AC	Sedimentary Rock Collection	Observation/ Scientific Investigation			
6.3 WU	Metamorphosis Origins	Think About			
6.3 AC	Metamorphic Rock Collection	Observation/ Scientific Investigation			
6.4 WU	Why Do Rocks Matter?	Discussion			
6.4 AC	The Rock Cycle	Check for Understanding			
MAA	Rocks App Design	Mobile Application Design			
MT	Module Test	Test			
MS	Module Survey	Survey			
Module 7: Plate Tectonics and Earth's Structure					
GS	Volcano Puzzle	Interactivity			
7.1 WU	Density	Think About			
7.1 AC	Earth's Structure	Model			
7.2 WU	Putting Pangaea Back Together	Web-Based Application			
7.2 AC	Plate Tectonics Scientific Investigation	Virtual Scientific Investigation			
7.3 WU	Volcanoes in the United States	URL			
7.3 AC	Volcanoes Crossword Puzzle	Puzzle Design			
7.4 WU	Living in an Earthquake Zone	Discussion			
7.4 AC	Earthquake Quiz	Quiz			
MAA	Are You Prepared?	Public Service			

		Announcement			
MT	Module Test	Test			
Module 8: Weathering, Erosion, and Groundwater					
GS	Weathering, Erosion, and Groundwater	Interactivity			
8.1 WU	Weathering of Chalk	Observation			
8.1 AC	Weathering Scientific Investigation	Hands-On Scientific Investigation			
8.2 WU	<i>Karst Topography and Mammoth Cave</i>	Video			
8.2 AC	<i>Spelunking Monthly Cavern Advertisement</i>	Travel Advertisement			
8.3 WU	Anti-Erosion Techniques	Discussion			
8.3 AC	Soil Profiles	Drawing/ Research			
8.4 WU	<i>The Forest & The Soil Cycle</i>	Video			
8.4 AC	Graded Bedding Scientific Investigation	Hands-On Scientific Investigation			
8.5 WU	The History of Water Treatment	Historical Connection			
8.5 AC	The Water Cycle	Graphic Organizer			
8.6 WU	<i>Groundwater Beneath the Surface</i>	Video			
8.6 AC	Groundwater Quiz	Quiz			
MAA	Weathering, Erosion, and Groundwater	Collaborative Presentation			
MT	Module Test	Test			
Module 9: Earth's History					
GS	<i>Fossils</i>	Video			
9.1 WU	Dating Fossil Tracks	Discussion			
9.1 AC	Relative Dating	Quiz			
9.2 WU	Sketching Atoms using Sketchpad™	Sketch			
9.2 AC	Radioactive Dating Scientific Investigation	Virtual Scientific Investigation			
9.3 WU	Millions and Billions	Interactivity			
9.3 AC	Geologic Timeline	Timeline			
9.4 WU	<i>Scientists Unearth Massive Ice Age Fossil Cache</i>	Video			
9.4 AC	Fossils	Check for Understanding			
MAA	Travel Through Time	Blog			
MT	Module Test	Test			
MS	Module Survey	Survey			
Module 10: Resources and Virginia Geology					

GS	U.S. Department of Energy's Power Gobbler Game	Game			
10.1 WU	Where are the Resources?	List			
10.1 AC	Renewable vs. Nonrenewable Resources	Email Composition			
10.2 WU	Fossil Fuel Games – Name It!	Game			
10.2 AC	Fossil Fuels	Infographic			
10.3 WU	The Hoover Dam and Hydroelectric Power	Discussion			
10.3 AC	Energy Potential of Virginia	Writing (3-4 paragraphs)			
10.4 WU	Physical Regions in Virginia	Think About			
10.4 AC	Virginia's Resource Usage	Graph Analysis			
10.5 WU	The Chesapeake Bay Report Card	URL			
10.5 AC	Virginia Watersheds and the Chesapeake Bay	Quiz			
MAA	Water Usage Audit	Personalized Water Usage Audit			
MT	Module Test	Test			
Module 11: Meteorology					
GS	Career Options	Podcast			
11.1 WU	The Atmosphere and Other Systems	List			
11.1 AC	Traveling Through the Atmosphere	Short Story			
11.2 WU	Heart-Shaped Cloud	Think			
11.2 AC	Observable Clouds	Hands-On Scientific Investigation			
11.3 WU	<i>What is Climate?</i>	Video			
11.3 AC	Climate Zones of the World	Mapping			
11.4 WU	Your Weather Story	Discussion			
11.4 AC	Measuring Humidity	Hands-On Scientific Investigation			
11.5 WU	Design a Weather Symbol	Sketch			
11.5 AC	Interpreting Weather Maps	Internet Research and Description			
11.6 WU	Hurricane Damage	Think			
11.6 AC	Hurricane Tracking	Mapping			
11.7 WU	Climate Time Machine	URL			
11.7 AC	Greenhouse Gases	Virtual Scientific Investigation			
MAA	Produce a Weather Forecast	Collaborative Video			
MT	Module Test	Test			
Module 12: Oceanography					

GS	Oceanography Connect-the-Dots	Game			
12.1 WU	Ocean Changes and Your Location	Think			
12.1 AC	Formation of the Oceans	Check for Understanding			
12.2 WU	Watching Tides – <i>Be the Captain!</i>	Game			
12.2 AC	Waves and Tides Graphic Organizer	Graphic Organizer			
12.3 WU	<i>Global Ocean Circulation</i>	Video			
12.3 AC	Part A: Salinity and Deep Ocean Currents Scientific Investigation	Virtual Scientific Investigation			
	Part B: Dissolved Substances Scientific Investigation	Hands-On Scientific Investigation			
12.4 WU	Erosion or Deposition	Interactivity			
12.4 AC	Continental Shelf Map	Mapping			
12.5 WU	Census of Marine Life: Did You Know?	Fact and Video			
12.5 AC	Ocean Life	Quiz			
12.6 WU	Who is Responsible for Pollution and Clean-Up?	Discussion			
12.6 AC	Oil Spill Clean-Up Scientific Investigation	Hands-On Scientific Investigation			
MAA	Environmental or Community Organization Volunteer	Volunteer Opportunity			
MT	Module Test	Test			
MS	Module Survey	Survey			