WESTSIDE
ATLANTA CHARTER SCHOOL

Curriculum Map

QTR 1:	Grade: 6th	YEAR: 2019-2020

Sciences				
Date	**Standard**	**Assessment**	**Additional Info.**	**Extension**
Week 1	**Culture Camp/Intro to Earth Science**		Community Building Hopes and Dreams Creating Science Norms	
Week 2	**Culture Camp/Intro to Earth Science**		Community Building Interactive Notebooks Culture: Origin of the Universe Stories	
Week 3	**Culture Camp/Scientific Practices**		Community Building: Kindness Lab Safety Scientific Method	
Week 4	**S6E1. The Universe** a. Ask questions to determine changes in models of Earth's position in the solar system, and origins of the universe as evidence that scientific theories change with the addition of new information. (Clarification statement: Students should consider Earth's position in geocentric and heliocentric models and the Big Bang as it describes the formation of the universe.)	❑ Pretest: The Universe and Our Solar System (HMH)	HMH Lesson: The Origin of the Universe	HMH: Galaxy Zoo Project IXL Science
Week 5	**S6E1. The Universe** b. Develop a model to represent the position of the solar system in the Milky Way galaxy and in the known	❑ Daily Exit Tickets and Homework ❑	HMH Lesson: Structure of the Universe	

	universe.		
Week 6	**S6E1. The Universe** b. Develop a model to represent the position of the solar system in the Milky Way galaxy and in the known universe. c. Analyze and interpret data to compare and contrast the planets in our solar system in terms of: i. size relative to Earth ii. surface and atmospheric features iii. relative distance from the sun iv. ability to support life.	❏ Daily Exit Tickets and Homework ❏	HMH: The Terrestrial Planets HMH: The Gas Giant Planets
Week 7	**S6E1. The Universe** d. Develop and use a model to explain the interaction of gravity and inertia that governs the motion of objects in the solar system. e. Ask questions to compare and contrast the characteristics, composition, and location of comets, asteroids, and meteoroids.	❏ Daily Exit Tickets and Homework ❏	HMH: Gravity and the Solar System
Week 8	**S6E1. The Universe** e. Ask questions to compare and contrast the characteristics, composition, and location of comets, asteroids, and meteoroids.	❏ Daily Exit Tickets and Homework	HMH: Small Bodies in the Solar System
Week 9	**S6E1. The Universe** **Project Week**	❏ Daily Exit Tickets and Homework ❏ Summative: Children's Book or Comic	

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QTR 2:	Grade: 6th	YEAR: 2019-2020

Sciences				
Date	**Standard**	**Assessment**	**Additional Info.**	**Extension**
Week 10	**S6E2. Sun, Earth, Moon** a. Develop and use a model to demonstrate the phases of the moon by showing the relative positions of the sun, Earth, and moon c. Analyze and interpret data to relate the tilt of the Earth to the distribution of sunlight throughout the year and its effect on seasons.	❑ Formative: Pre-assessment ❑ Daily Exit Tickets and Homework	HMH: Earth Days, Years, and Season	The Water Cycle Game Project IXL Science
Week 11	**S6E2. Sun, Earth, Moon** a. Develop and use a model to demonstrate the phases of the moon by showing the relative positions of the sun, Earth, and moon b. Construct an explanation of the cause of solar and lunar eclipses.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Moon Phases and Eclipses	
Week 12	**S6E2. Sun, Earth, Moon** a. Develop and use a model to demonstrate the phases of the moon by showing the relative positions of the sun, Earth, and moon **S6E3. Role of Water in Earth Processes** d. Analyze and interpret data to create graphic representations of the causes and effects of waves, currents, and tides in Earth's systems.	❑ Daily Exit Tickets and Homework ❑ Summative Assessment	HMH: Earth's Tides	
Week 13	**S6E3. Role of Water in Earth Processes**	❑ Formative: Pre-assessment ❑ Daily Exit Tickets and Homework		
Week 14	**S6E3. Role of Water in Earth Processes** a. Ask questions to determine where water is located on Earth's surface (oceans, rivers, lakes, swamps, groundwater, aquifers, and ice) and communicate the relative proportion of water at each location.	❑ Daily Exit Tickets and Homework ❑ Field Trip: Blue Heron Nature Preserve	HMH: Surface Water and Groundwater	
Week 15	**S6E3. Role of Water in Earth Processes**	❑ Daily Exit Tickets and	HMH: The Water Cycle	

	a. Ask questions to determine where water is located on Earth's surface (oceans, rivers, lakes, swamps, groundwater, aquifers, and ice) and communicate the relative proportion of water at each location b. Plan and carry out an investigation to illustrate the role of the sun's energy in atmospheric conditions that lead to the cycling of water. (Clarification statement: The water cycle should include evaporation, condensation, precipitation, transpiration, infiltration, groundwater, and runoff.)	Homework ❑ Quiz		
Week 16	**S6E3. Role of Water in Earth Processes** a. Ask questions to determine where water is located on Earth's surface (oceans, rivers, lakes, swamps, groundwater, aquifers, and ice) and communicate the relative proportion of water at each location c. Ask questions to identify and communicate, using graphs and maps, the composition, location, and subsurface topography of the world's oceans.	❑ Daily Exit Tickets and Homework	HMH: Earth's Oceans and the Ocean Floor	
Week 17	**S6E3. Role of Water in Earth Processes** d. Analyze and interpret data to create graphic representations of the causes and effects of waves, currents, and tides in Earth's systems.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Ocean Currents	
Week 18	**S6E3. Role of Water in Earth Processes**	❑ Daily Exit Tickets and Homework ❑ Summative Assessment		

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QTR 3:	Grade: 6th	YEAR: 2019-2020

Sciences				
Date	**Standard**	**Assessment**	**Additional Info.**	**Extension**
Week 19	**S6E4. Climate and Weather** a. Analyze and interpret data to compare and contrast the	❑ Daily Exit Tickets and Homework	HMH: The Atmosphere	IXL Science

	composition of Earth's atmospheric layers (including the ozone layer) and greenhouse gases.	❑ Quiz		
Week 20	**S6E4. Climate and Weather** b. Plan and carry out an investigation to demonstrate how energy from the sun transfers heat to air, land and water at different rates.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Energy Transfer	
Week 21	**S6E4**. **Climate and Weather** c. Develop a model demonstrating the interaction between unequal heating and the rotation of the Earth that causes local and global wind systems.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Weather and Severe Weather	
Week 22	**S6E4. Climate and Weather** d. Construct an explanation of the relationship between air pressure, weather fronts, and air masses and meteorological events such as tornadoes and thunderstorms.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Weather Forecasting	
Week 23	**S6E4. Climate and Weather** e. Analyze and interpret weather data to explain the effects of moisture evaporating from the ocean on weather patterns and weather events such as hurricanes	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Climate and Climate Change	
Week 24	**Climate and Weather: Assessment Week**	❑ Summative Test ❑ Project		
Week 25	**S6E5. Earth's Surface** a. Ask questions to compare and contrast the Earth's crust, mantle, inner and outer core, including temperature, density, thickness, and composition.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Earth's Layers	IXL Science
Week 26	**S6E5**. **Earth's Surface** g. Construct an argument using maps and data collected to support a claim of how fossils show evidence of the changing surface and climate of the Earth	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Geological Change Over Time	
Week 27	**S6E5**. **Earth's Surface** f. Construct an explanation of how the movement of lithospheric plates, called plate tectonics, can cause major geologic events such as earthquakes and volcanic eruptions. (Clarification statement: Include convergent,	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Plate Tectonics, Mountains, Volcanoes, Earthquakes	

	divergent, and transform boundaries.)			

Curriculum Map

QTR 4:	Grade: 6th	YEAR: 2019-2020

Sciences				
Date	**Standard**	**Assessment**	**Additional Info.**	**Extension**
Week 28	**S6E5. Earth's Surface** f. Construct an explanation of how the movement of lithospheric plates, called plate tectonics, can cause major geologic events such as earthquakes and volcanic eruptions. (Clarification statement: Include convergent, divergent, and transform boundaries.)	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Plate Tectonics, Mountains, Volcanoes, Earthquakes	
Week 29	**Earth's Surface: Assessment Week**	❑ Summative Test ❑ Project		
Week 30	**S6E5**. **Rocks and Minerals** b. Plan and carry out an investigation of the characteristics of minerals and how minerals contribute to rock composition.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Minerals	IXL Science
Week 31	**S6E5**. **Rocks and Minerals** c. Construct an explanation of how to classify rocks by their formation and how rocks change through geologic processes in the rock cycle.	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: The Rock Cycle, Three Classes of Rock	
Week 32	**S6E5**. **Rocks and Minerals** c. Construct an explanation of how to classify rocks by their formation and how rocks change through geologic processes in the rock cycle. e. Develop a model to demonstrate how natural processes (weathering, erosion, and deposition) and human activity change rocks and the surface of the Earth. h. Plan and carry out an investigation to provide evidence	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Weathering, Deposition, Erosion, Soil Formation	

	that soil is composed of layers of weathered rocks and decomposed organic material.			
Week 33	**Rocks and Minerals: Assessment Week**	❑ Summative Test ❑ Project		
Week 34	**PBL: Earth's Natural Resources** S6E5.e. Develop a model to demonstrate how natural processes (weathering, erosion, and deposition) and human activity S6E6.c. Construct an argument evaluating contributions to the rise in global temperatures over the past century. (Clarification statement: Tables, graphs, and maps of global and regional temperatures, and atmospheric levels of greenhouse gases such as carbon dioxide and methane, should be used as sources of evidence.)	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Human Impact	IXL Science
Week 35	**PBL: Earth's Natural Resources** S6E6.a. Ask questions to determine the differences between renewable/sustainable energy resources (examples: hydro, solar, wind, geothermal, tidal, biomass) and nonrenewable energy resources (examples: nuclear: uranium, fossil fuels: oil, coal, and natural gas), and how they are used in our everyday lives	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Nonrenewable Energy Resources, Renewable Energy Resources, Managing Resources	
Week 36	**PBL: Earth's Natural Resources** S6E6.b. Design and evaluate solutions for sustaining the quality and supply of natural resources such as water, soil, and air	❑ Daily Exit Tickets and Homework ❑ Quiz	HMH: Renewable Energy Resources, Protecting Earth's Water, Land, and Air	