

Curriculum Map

	Content and Essential Questions	Skills: Students will...	Assessment	Materials/Technology Resources
	<p>The Earth in space: (ES 13)</p> <ul style="list-style-type: none"> • What is a solar system? • What are the parts a solar system? • What is an orbit? • How is a star different from a planet or moon? • What do planets and moons have in common? 	<ul style="list-style-type: none"> • learn that a solar system is a basic unit of space where planets revolve around a star. • learn the sun is our star in the center of our solar system that has tremendous gravity • know that a star is a huge, superheated ball of gas • learn the names of the planets in order to locate the earth's position • learn that planets and moons reflect light and a star (sun) produces light 	<ul style="list-style-type: none"> • draw and label a basic diagram of our solar system with the sun in the middle with planets and moons in elliptical orbits • define the difference between planets, moons and the sun • explain how we see the light of the sun differently that the light of the moon or earth 	<ul style="list-style-type: none"> • posters of the solar system • classroom materials for making models of the solar system • light source for investigation reflection

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	<p>Motions in space (ES 14, 15)</p> <ul style="list-style-type: none"> • What is rotation and revolution in space? • What are the motions of the sun, earth, and moon in space? • How are the motions of the sun/moon/earth used for telling periods of time? • How does the moon look from earth? • How long does it take for the phases of the moon to change? 	<ul style="list-style-type: none"> • draw and label a planet to show rotation and revolution • label the spinning motion of planets and moons as rotation • related the measuring of a day, month and year to the motions of the sun/earth/moon model • study the model of our solar system to figure the huge distances between planets • develop a model of the earth and moon to show their motions • diagram the phases of the moon to show how the moon's location causes the visible size to change • use the model of earth/moon/sun to understand the tides in our oceans 	<ul style="list-style-type: none"> • draw and label a diagram of our solar system • describe what rotation and revolution of planets looks like • figure the distance between two planets • demonstrate with a model the motion of the moon that causes the phases we see on earth • show with a model the reason for the tides • 	<ul style="list-style-type: none"> • posters of the solar system • classroom materials for making models of the solar system • light source for casting shadows for moon phases • math skill for figuring distances in space

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