

CURRICULUM GUIDE

Earth and Space Sciences: Students develop an understanding of the patterns of energy flow along with matter cycling within and among Earth's systems.

SUBJECT: Science

GRADE: 7th GradeTIMELINE: 2nd Quarter

Standard	Kid Friendly Learning Objectives	Content (subject or topic covered in Journeys/My Perspectives)	DOK Level	Skills (ability, practice, aptitude that will be learned)	Assessment	Academic Vocabulary
7.E1U2.7 (1 wk) Analyze and interpret data to construct an explanation for how advances in technology has improved weather prediction	I can analyze and interpret data to construct an explanation for how advances in technology have improved weather prediction.	<u>Earth and Space</u> Describing Weather Chapter 13 Lesson 1 p. 209-222 <u>Earth and Space</u> Weather Forecast Chapter 13 Lesson 3 p. 223-226	DOK 3-4	<ul style="list-style-type: none"> • explain • create • compare and contrast • differentiate 	Analyze and interpret data: <ul style="list-style-type: none"> • Consider limitations of data analysis (e.g., measurement error), and seek to improve the precision and accuracy of data with better technological tools and methods (e.g., multiple trials). Construct an explanation: <ul style="list-style-type: none"> • Apply scientific knowledge and evidence to explain real-world phenomena, examples, or events. 	<ul style="list-style-type: none"> • weather • climate • sunlight • ocean • atmosphere • latitude • altitude • greenhouse gases

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					<ul style="list-style-type: none"> Apply scientific reasoning to show why the data are adequate for the explanation or conclusion. 	
7.E1U1.5 (3 Wks) Construct a model that shows the cycling of matter and flow of energy in the atmosphere, hydrosphere, and geosphere.	I can construct a model that shows the cycling of matter and flow of energy in the atmosphere, hydrosphere, and geosphere.	<u>Life Science</u> Cycles of Matter Chapter 20 Lesson 2 P. 336-342 <u>Earth and Space</u> Rocks and the Rock Cycle Chapter 2 Lesson 1 P. 47-50 Supplementary Igneous Rocks Chapter 4 Lesson 2 Sedimentary Rocks Chapter 4 Lesson 3 Metamorphic Rocks Chapter 4 Lesson 4	DOK 3-4	<ul style="list-style-type: none"> develop conclude differentiate investigate 	Construct a model: <ul style="list-style-type: none"> Use and/or develop models to predict, describe, support explanations, and/or collect data to test ideas about phenomena in natural or designed systems, including those representing inputs and outputs, and those at unobservable scales. Develop models to describe unobservable mechanisms. 	<ul style="list-style-type: none"> atmosphere geosphere hydrosphere matter energy chemical physical change

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7.E1U1.6 (4 wks) Construct a model to explain how the distribution of fossils and rocks, continental shapes, and seafloor structures provides evidence of the past plate motions.	I can construct a model to explain how the distribution of fossils and rocks, continental shapes, and seafloor structures provides evidence of the past plate motions.	<u>Earth and Space</u> The Continental Drift Hypothesis Chapter 7 Lesson 1 P. 91-95 Development of a Theory Chapter 7 Lesson 2 P. 96-101 The Theory of Plate Tectonics Chapter 7 Lesson 3 P. 102-106	DOK 3-4	<ul style="list-style-type: none"> • predict • connect • summarize • explain • design • create • connect • compare • conclude 	Construct a model <ul style="list-style-type: none"> • Develop models to describe unobservable mechanisms. • Develop a model that allows for manipulation and testing of a process or system 	<ul style="list-style-type: none"> • plate tectonics • continental • oceanic • rocks • minerals • Earth's crust • fossils