Science 6th Grade Student Guide

Materials needed:

- Earth and Space Science Interactive Notebook
- Physical Science Interactive Notebook
- Pocket Volcano
- Rock Tumbler
- Electricity Discovery Kit
- Kids Discover: Earth; Energy; Electricity
- Brainpop.com subscription

your notebook.

Update your table of contents.

A blank notebook

Interactive Notebooks should have a Table of Contents at their beginning so that you can easily find a topic in your notebook later. Reserve the first page (front and back) for your Table of Contents. Number your notebook pages as you go and remember to update your Table of Contents each time you complete a section.

Neek	1:		
Scientific Method			
	Watch Brain Pop: Scientific Method		
	Complete the Flow Chart page and cut out the flow chart and glue it in to your notebook.		
	Update your table of contents.		
Earth Science - Earth Basics			
	In your notebook, title your page: "Earth Notes." As you read Kids Discover: Earth, take		
	notes on anything interesting/important.		
	Continuing your Earth Notes page, use the table on pages 16-17 of Kids Discover: Earth		
	to explain how ecological capacity and ecological footprint differ. Also, Is the world living		
	within its ecological capacity? Explain your answer.		
	Draw a diagram showing where the Earth places in the solar system. Also, draw the		
	earth as a circle/sphere and label the equator and the different hemispheres (you may		
	need to refer back to Kids Discover: Earth).		
	Update your table of contents.		
Neek	2-3:		
Earth Science - Natural Resources			
	Watch Brainpop: Natural Resources		
	Make a copy of pg. 8 in your in your Earth and Space Science Interactive Notebook.		

☐ Using the information and instructions on pg. 7 of Earth and Space Science

Interactive Notebook, cut out and arrange the sections from your pg. 8 copy in to

Earth :	Science - Earth's Structure and Changes
	Listen to the Brains On! Podcast: Mysteries of the universe: Expansion and gravity and
	take notes as you listen.
	Title a page in your notebook, "Planet Earth Video Notes."
	Watch Everything You Need to Know About Planet Earth + take notes
	Watch Bill Nye ep. 1 (Earth's Crust) + Title a page "Bill Nye Earth's Crust Notes" and
	take notes as you watch.
	Update your Table of Contents
	Make a copy of pg. 12 in your in your Earth and Space Science Interactive Notebook.
	☐ Using the information and instructions on pg. 11 of Earth and Space Science
	Interactive Notebook, cut out and arrange the sections from your pg. 12 copy in
	to your notebook.
	Watch the Volcanoes Brain Pop video + complete the activity page and attach it in your
	notebook.
	Listen to the Brains On! Podcast: How do volcanoes erupt? and take notes as you listen.
	Make a copy of pg. 14 in your Earth and Space Science Interactive Notebook.
	☐ Using the information and instructions on pg. 13 of Earth and Space Science
	Interactive Notebook, cut out and arrange the sections from your pg. 14 copy in
	to your notebook.
	Watch the Brainpop Earthquakes video.
	Copy the diagram from the <u>sequence chart activity</u> in to your notebook and complete it.
	Make a copy of pg. 16 in your in your Earth and Space Science Interactive Notebook.
	☐ Using the information and instructions on pg. 15 of Earth and Space Science
	Interactive Notebook, cut out and arrange the sections from your pg. 16 copy in
	to your notebook.
	Update your Table of Contents
	Experiment with your pocket volcano!
Week	4:
Earth :	Science - Weathering and Erosion
	Watch the Brainpop Weathering video
	Make a copy of pg. 24 in your in your Earth and Space Science Interactive Notebook.
	☐ Using the information and instructions on pg. 23 of Earth and Space Science
	Interactive Notebook, cut out and arrange the sections from your pg. 24 copy in
	to your notebook.
	Watch the <u>Brainpop Erosion video</u> .
	Complete the Categorize the Landforms activity page and cut it out and attach it in your
	notebook (you don't need to do the bottom research activity).
	Make a copy of pg. 26 in your in your Earth and Space Science Interactive Notebook.

	☐ Using the information and instructions on pg. 25 of Earth and Space Science Interactive Notebook, cut out and arrange the sections from your pg. 26 copy in to your notebook.		
	Using your rock tumbler, create an experiment to test how weathering and erosion affects rocks over different sets of tumbling time. Tumble rocks for different amounts of		
	time and compare the differences. The tumbler can simulate millions of years of		
	weathering in a short amount of time. Record your experiment using the Scientific		
	Method steps. BEFORE you begin, make sure you are following the scientific method		
	steps. Be sure to state your hypothesis before you begin the experiment! Update your Table of Contents		
_	opulate your rable or Contents		
Week	5-6:		
-	al Science - Energy		
	You're going to do an experiment with Silas this week. Choose a day to work together.		
П	He has the instructions for the experiment.		
	Watch the <u>Brainpop Forms of Energy video</u> . Make a copy of pg. 36 in your in your Physical Science Interactive Notebook.		
_	☐ Using the information and instructions on pg. 35 of Physical Science Interactive		
	Notebook, cut out and arrange the sections from your pg. 36 copy in to your		
	notebook.		
	Listen to the Brains On! Podcast: Charged Up! The science of batteries and take notes		
	as you listen.		
	Watch the <u>Brainpop Waves video</u> .		
	Make a copy of pg. 40 in your in your Physical Science Interactive Notebook.		
	☐ Using the information and instructions on pg. 39 of Physical Science		
	Interactive Notebook, cut out and arrange the sections from your pg. 40		
П	copy in to your notebook.		
	Watch: <u>The Big Energy Gamble</u> + take notes OR write a one paragraph summary of the video when it is done.		
	Update your Table of Contents		
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Week	7-8:		
<u>Physic</u>	al Science - Nuclear Energy		
	Watch the Brainpop Nuclear Energy video.		
	Complete the graphic organizer activity page and attach it in your notebook.		
	Follow the instructions on the <u>Viewpoints page</u> . Write both sides of the argument in your		
	notebook.		
	Update your Table of Contents		
Physical Science - Electricity			
-	Read Kids Discover: Electricity + take notes on anything interesting/important.		

	Watch the <u>Brainpop Electricity video</u> + record definitions for <i>static electricity</i> ; <i>electrical</i>
	currents; electrical circuit; magnetic field; magnetic poles. Title your page "Electricity
	Definitions."
	Listen to the Brains On! Podcast: High Voltage! How electric power reaches your outlet
	and take notes as you listen.
	Watch the Brainpop Electric Circuits video.
	Complete the <u>Label It and Think About it activity page</u> and attach it in your notebook.
	Make a copy of pg. 56 in your in your Physical Science Interactive Notebook.
	Using the information and instructions on pg. 55 of Physical Science Interactive
	Notebook, cut out and arrange the sections from your pg. 56 copy in to your notebook.
	Make a copy of pg. 58 in your in your Physical Science Interactive Notebook.
	Using the information and instructions on pg. 57 of Physical Science Interactive
	Notebook, cut out and arrange the sections from your pg. 58 copy in to your
	notebook.
	Use your Electricity Discovery Kit. In your notebook, show what you did with it by
	drawing diagrams and writing. Include information about your process and findings.
	Remember, a reader should be able to understand just what happened by what your
_	write.
ш	Update your Table of Contents
Week	ο.
	al Science - Heat
•	Watch the Brainpop Heat video
	Complete the Gauging Heat's Properties activity page and attach it in your notebook.
	Make a copy of pg. 38 in your in your Physical Science Interactive Notebook.
	☐ Using the information and instructions on pg. 37 of Physical Science Interactive
	Notebook, cut out and arrange the sections from your pg. 38 copy in to your
	notebook.
	Watch the video for the Balloon in a Candle Flame experiment and follow along with your
	own materials to conduct the experiment yourself. BEFORE you begin, make sure you
	are following the scientific method steps. Be sure to state your hypothesis before you
	begin the experiment!
	Update your Table of Contents