



# Science (4-Day)

Extra Activity Sheets

by The Sonlight Team

"The fear of the Lord is the beginning of knowledge, But fools despise wisdom and instruction."

Proverbs 1:7 (NKJV)



**4-DAY PROGRAM** 

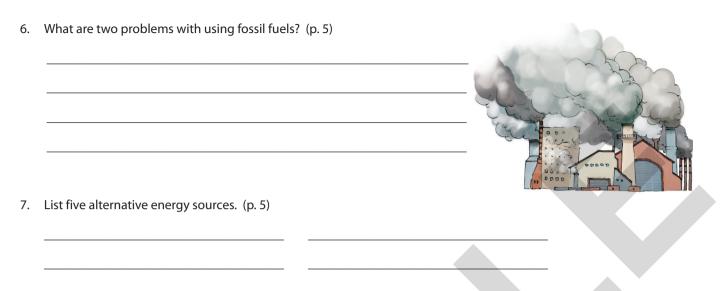
ESG41 Science E "Electricity, Magnetism, and Astronomy" Student Activity Sheets (2018)

### **Electricity and Magnetism**

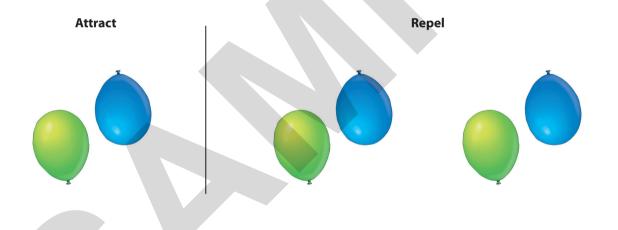
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1.	What form of electricity do we use? (p		
	current electricity	static electricity	
2.	What type of electricity is found natur	rally? Give two examples. (p. 3)	
(			
3.	List seven forms of energy. (p. 4)		
4.	Name two ways we produce electricit	ry. (p. 4)	
5.	What is energy measured in? (p. 4)		
	watts	joules	
	grams	degrees	





8. Add (+) and (-) signs to the balloons below. Give one example of charges that attract and at least one example of charges that repel. (p. 6)



9. What causes static electricity? (p. 6)

10. Does more static electricity build up in a dry or damp climate? Circle the correct answer. (p. 6)

dry damp

# Science E: Week 1 Activity Sheet

(p. 7)

- 11. Why are we generally unaware of electrical charges? (p. 7)

\_ than \_

A positive ion has more \_\_\_\_\_

(p. 7) 13. A negative ion has more \_\_\_\_\_ than

12.

#### **Electricity and Magnetism**

1. Talk it out then write it down: Explain your answer verbally to Mom or Dad, then write it below. Could lightning be used as a power source? Why or why not? (p. 8)



2. Please find Cut-Out #1 in the appendix. Put the steps in order of what causes lightning below, but check your answer with Mom or Dad before gluing them down! Then, use this sheet to help you explain it to someone who doesn't know. (p. 8)











## Science E: Week 2 Activity Sheet

- 3. Lightning conductors cause lightning... (Circle the correct letter) (p. 9)
  - a. to strike in a safe spot so it becomes harmless to nearby structures
  - b. to be neutralized by sending out positive charges to join with the negative charges in the cloud
  - c. to be neutralized by sending out negative charges to repel negative charges in the cloud
  - d. to be neutralized by getting rid of all the charges in the cloud

4.	Where is a magnet's charge strongest? (p. 10)		

5. How can you tell if something can be magnetized? (p. 11)



6. List characteristics of a magnetic substance. (p. 10)



- 7. Talk it out, then write it down: Explain your answer verbally to Mom or Dad, then write it below.

What do scientists believe causes magnetism? Be sure to include the terms "domain" and "force" in your explanation.

Draw a picture to help you explain. (p. 11)