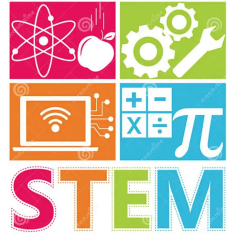


# SCIENCE Newsletter



**Week of :** Feb.12th to Feb.16th, 2024

## 4A,B,C,D,E Home Learning

	<b>4A,B,C,D,E Home Learning</b>
<b>Monday</b>	Complete the Study Guide Questions
<b>Tuesday</b>	Complete the Study Guide Questions
<b>Wednesday</b>	Review Study Guide and Vocabulary
<b>Thursday</b>	No Homework : Forms of Energy Test
<b>Friday</b>	No Homework - enjoy your weekend!

## Vocabulary



forms of energy  
potential energy  
kinetic energy  
electrical  
light  
reflects  
bends  
absorbs  
opaque  
transparent  
translucent  
sound  
vibrations  
wave  
pitch  
volume  
heat  
friction motion  
speed  
collision  
mass  
transfer

## Reminders



- **Topic 4 TEST**
- **Thursday 02/15**
- **Topic 4 Lessons 1-3 Vocabulary Quizlet**



## Energy Study Guide

**Directions:** Fill in the blanks.

1. Energy makes things happen.

Energy is the ability to do \_\_\_\_\_.

2. Light is a form of \_\_\_\_\_.

3. Light travels in a \_\_\_\_\_ line until it strikes an object or travels from one type of material to another.

4. What happens to light waves when they strike an object?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. Light bounces off or is \_\_\_\_\_ from some kinds of opaque objects.

6. Light bends or \_\_\_\_\_ as it passes from one medium (form of matter: solid, liquid, gas) to another.

7. What forms of energy do light bulbs **use** and **produce**?

Use: \_\_\_\_\_

Produce: \_\_\_\_\_

8. Heat (thermal energy) is transferred from one substance to another, from the substance with the \_\_\_\_\_ temperature to the substance with the \_\_\_\_\_ temperature.

9. Heat is transferred from one object to another in three ways:

- \_\_\_\_\_: the transfer of thermal energy through direct contact.
- \_\_\_\_\_: the transfer of thermal energy through a liquid or a gas.
- \_\_\_\_\_: the transfer of thermal energy through electromagnetic waves.

What kind of heat transfer is this? (conduction, convection, or radiation)

- boiling water in a pot \_\_\_\_\_
- two eggs cooking in a pan \_\_\_\_\_
- a microwave heating up food \_\_\_\_\_
- your hands touching a mug of hot chocolate \_\_\_\_\_

- laying out on the beach to get sun \_\_\_\_\_

10. Sound waves travel through a \_\_\_\_\_. They can't move through a

\_\_\_\_\_.

11. What are the 3 mediums? \_\_\_\_\_

12. \_\_\_\_\_ energy is the energy of motion

13. \_\_\_\_\_ energy is stored energy

14. Sound is produced from \_\_\_\_\_.

16. \_\_\_\_\_ are materials that **do not** conduct heat and electricity well.

a. List examples of insulators

17. \_\_\_\_\_ are materials that conduct heat and electricity well.

b. List examples of conductors

18. What is the measure of how well a substance conducts heat and electricity?

19. Describe an opaque object.

20. Describe a transparent object.

21. Describe a translucent object.