

SECTIONS: 4A,B,C,D,E

DATE	HOMEWORK	PARENT SIGNATURE
Monday Science	→ Complete the study guide → Test tomorrow--Open notebook test	
Tuesday Science	No Homework	
Wednesday Science	No Homework	
Thursday Social Studies	No Homework	
Friday Social Studies	No Homework Enjoy the Break!!! See you in 2019!	

I.A.N HW

NO IAN HOMEWORK UNTIL AFTER THE HOLIDAYS.

VOCABULARY**Science**

- Light (radiant) energy:** energy that travels in electromagnetic waves and may travel in space
- Heat (thermal) energy:** energy produced from the movement of molecules
- Sound energy:** energy produced by sound vibrations
- Electrical energy (electricity):** energy produced from the flow of an electric current through a conductor
- Mechanical energy:** energy gained by the physical movement in position of an object
- Kinetic energy:** energy in motion
- Potential energy:** energy at rest or will be used later
- Crest:** the highest point on a wave
- Trough:** the lowest point on a wave
- Wavelength:** the distance between one crest and another crest
- Frequency:** the number of waves that pass a particular point in a given amount of time
- Pitch:** how high or low a sound seems

Reminders

- **Parents:** Don't forget to initial your child's HW Cover Sheet every night.
- **Science Energy Test Tuesday, December 18th**
- **OPEN NOTEBOOK TEST**

Energy Study Guide

Directions: Fill in the blanks. Use the notes in your notebook.

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

- 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 _____
9. Sound waves travel through a _____. The can't move through a _____.
 10. What are the 3 mediums? _____

11. On the lines below show the speed of sound waves from fastest to slowest

12. _____ energy is the energy of motion

13. _____ energy is stored energy

14. Sound is produced from _____.

15. Label the following wave with the following: trough, crest, and wavelength

