

### G3 Science Quiz / Chapter 12: Forms of Energy

**Multiple Choice:** Type the letter of the correct answer. (12 points)

- \_\_\_\_\_ 1. It is a dark space that forms when the light is blocked.  
A. Transparent      B. Opaque      C. Shadow      D. Translucent
- \_\_\_\_\_ 2. It is the flow of energy between two objects.  
A. Heat      B. Light      C. Electricity      D. Sound
- \_\_\_\_\_ 3. It is a form of energy that allows you to see objects.  
A. Heat      B. Light      C. Electricity      D. Sound
- \_\_\_\_\_ 4. It is a form of energy that causes light bulbs to glow.  
A. Heat      B. Light      C. Electricity      D. Sound
- \_\_\_\_\_ 5. It is a form of energy that comes from objects that vibrates.  
A. Heat      B. Light      C. Electricity      D. Sound
- \_\_\_\_\_ 6. Positive charge and negative charge are \_\_\_\_\_.  
A. Static Electricity      C. Electric Charges  
B. Electricity      D. Electric Current
- \_\_\_\_\_ 7. Light can be absorbed, or \_\_\_\_\_.  
A. Bend      B. taken in      C. block      D. bounces off
- \_\_\_\_\_ 8. When light hits some objects, it **reflects**, or \_\_\_\_\_.  
A. Bend      B. taken in      C. block      D. bounces off
- \_\_\_\_\_ 9. Light can refract. To refract means to \_\_\_\_\_.  
A. Bend      B. taken in      C. block      D. bounces off
- \_\_\_\_\_ 10. Opaque objects \_\_\_\_\_ light from passing through them.  
A. Bend      B. taken in      C. block      D. bounces off
- \_\_\_\_\_ 11. Wax paper and frosted (colored) glass are examples of \_\_\_\_\_ objects.  
A. Transparent      B. Opaque      C. Shadow      D. Translucent
- \_\_\_\_\_ 12. Objects that allow all the light to pass through them are called \_\_\_\_\_.  
A. Transparent      B. Opaque      C. Shadow      D. Translucent

**Completion:** Fill in the blanks to complete the sentence. Type the answers in the box.  
Choose the answers from box below. (10 points)

<b>fires</b>	<b>conductor</b>	<b>pitch</b>	<b>Rubbing</b>	<b>volume</b>
<b>glass</b>	<b>insulator</b>	<b>switch</b>	<b>water</b>	<b>Sun</b>

1. The \_\_\_\_\_ is Earth's main source of heat.
2. The Sun's heat warms the air, land, and \_\_\_\_\_.
3. Light bulbs, stoves, and \_\_\_\_\_ are some other sources of heat.
4. \_\_\_\_\_ two objects can also produce heat.
5. An \_\_\_\_\_ is a material that heat does not pass through easily.
6. A \_\_\_\_\_ is a material that heat moves through easily.
7. A \_\_\_\_\_ is used to turn on and turn off the flow of electricity.
8. A \_\_\_\_\_ describes how loud the sound is.
9. A sound's \_\_\_\_\_ is how high or low it is.
10. A \_\_\_\_\_ measures how hot or cold something is.
11. \_\_\_\_\_ is a transparent object that light can pass through.

**True or False:** Choose True if the statement is correct and choose False if it is wrong.  
(10 points)

1. Without the Sun's heat, it would be too cold on Earth.
2. At the beach, the sand is colder than the water when Sun heats them up.
3. To vibrate is move back and forth quickly.
4. It is important to protect your ears by staying away from loud sounds.
5. Always put a finger and pencil in your ear.
6. The closer an object is to light source, the bigger its shadow.
7. You can see things even when there is no light at all.
8. Mirror reflects light.
9. A pencil in a glass of water is an example of refraction of light.
10. Opaque objects can cause shadow to form.

**Identification:** Identify the following pictures. Choose the correct answers. (18 points)

**Conductor or Insulator**

1. \_\_\_\_\_



2. \_\_\_\_\_



3. \_\_\_\_\_



5. \_\_\_\_\_



4. \_\_\_\_\_



6. \_\_\_\_\_



7. \_\_\_\_\_



8. \_\_\_\_\_



9. \_\_\_\_\_



10. \_\_\_\_\_



## Opaque, Transparent, or Translucent

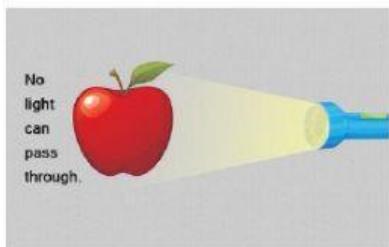
11. \_\_\_\_\_



12. \_\_\_\_\_



13. \_\_\_\_\_



14. \_\_\_\_\_



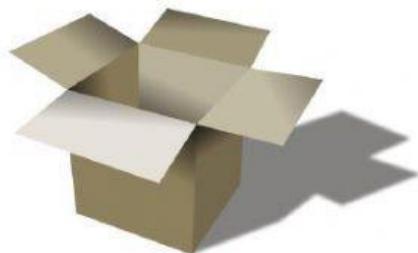
15. \_\_\_\_\_



16. \_\_\_\_\_



17. \_\_\_\_\_



18. \_\_\_\_\_

