

Name: _____

Date: _____

LIGHT AND SOUND TEST

1. Circle **True** or **False**:

- | | | |
|--|---|---|
| a) Light is a type of energy. | T | F |
| b) The colours in a rainbow have a specific order. | T | F |
| c) Shadows form because light can be absorbed. | T | F |
| d) Light reflects best off of dark surfaces. | T | F |
| e) Water can be used as a magnifying lens. | T | F |
| f) Sound is a type of energy. | T | F |
| g) An echo is a sound that has reflected. | T | F |
| h) Sound can move objects. | T | F |
| i) Sound reflects best off of hard flat surfaces. | T | F |

2. For each of the statements circle light, sound or both.

- | | | |
|---|-------|-------|
| a) Travels in waves. | Light | Sound |
| b) Can be modified | Light | Sound |
| c) Can be reflected. | Light | Sound |
| d) Can be absorbed. | Light | Sound |
| e) Bends when it goes into a different substance. | Light | Sound |
| f) Caused by vibrations. | Light | Sound |

3. Label the following as "light sources" or "reflected light."



4. Make a list of three natural light sources and three artificial light sources.

Natural

Artificial

5. Make a list of three hot light sources and three cool light sources.

Hot

Cool

6. What does a prism do to light?

7. Why might you recommend to someone that they switch to LED Christmas lights? (Be sure to discuss our experiment, not just prior knowledge.)

8. What is the difference between “pitch” and “loudness?”

9. Describe how the human ear works.

10. Make a list of things that use light or sound to work. (Not things that produce light or sound.)

11. Choose one human invention that uses light or sound to keep us safe. Explain how light or sound is used in this invention, and how it works to keep us safe.

LIGHT AND SOUND



Absorb
Artificial
Beam
Cochlea
Ear Drum
Echo
Energy
Florescent
Hear
Incandescent

Larynx
Laser
LED
Light
Loudness
Natural
Pitch
Prism
Rainbow
Reflect

Refract
See
Shadow
Sound
Source
Straight
Vibration
Vocal Cords
Volume
Waves