

**MS 4 Science – Term 3**  
**Measurement Topic 2: Forms of Energy**  
**Heat and Light Energy**

Instruction: For every item, enter T if the sentence is true, and F if it is false.

1. Heat is transferred from an object with high temperature to an object with a low temperature.
2. If four metal nails were stuck in a row on an iron rod with wax, and the iron rod was heated on one end, the nail farthest from the heat source will fall off first.
3. Heat energy causes the wax to change its state of matter.
4. Heat energy causes the atoms in an object to move more slowly.
5. The process of heat transfer from one atom to another is called conduction.
6. Metals like iron are examples of poor conductors of heat.
7. Liquids and gases do not conduct heat as easily as solids.
8. Light travels in waves.
9. When light hits an object, it bends to go around it.
10. Dull (non-shiny) objects absorb light.
11. Refraction happens when light travels through objects like water and it “slows down”, causing objects in it to appear bent.
12. Light passes easily through solid or opaque objects.
13. When light hits a transparent object, the object blocks the light, forming a shadow.
14. A sundial makes use of shadows created by the sun to tell time.
15. Light energy is used for different other purposes such as take photographs, cut through objects, and scan barcodes.