

Chapter 18 The Electromagnetic Spectrum and Light
Section 18.5 Sources of Light
(pages 558-562)

Name _____

Period _____

Date _____

This section discusses the major sources of light and their uses.

1. Objects that give off their own light are _____.
2. List six common sources of light.

Incandescent Light

3. The light produced when an object gets hot enough to glow is _____.
4. As electrons flow through an incandescent light bulb, the _____ heats up.
5. Is the following sentence true or false? (circle one - *If it is false change it to make it true*).
To increase the life of the filament, incandescent light bulbs contain oxygen at very low pressure.
6. Most of the energy given off by incandescent bulbs is in the form of _____.

Fluorescent Light

7. What happens in the process of fluorescence?
8. A solid material that can emit light by fluorescence is called a(n) _____.
9. Fluorescent bulbs emit most of their energy in the form of _____.
10. Is the following sentence true or false? (circle one - *If it is false change it to make it true*).
Incandescent bulbs are more energy efficient than fluorescent bulbs.

Laser Light

11. A laser is a device that generates _____.
12. The letters in the word laser stand for
l _____
a _____
s _____
e _____
r _____
13. What is coherent light?
14. Why does coherent light have a relatively constant intensity?