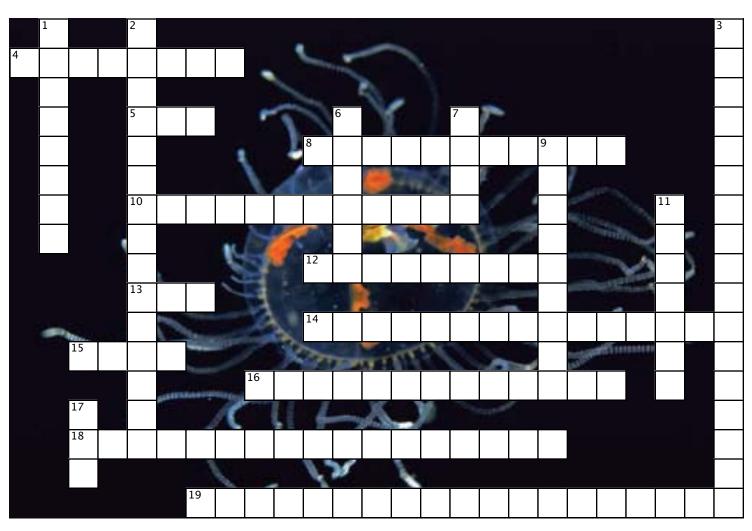
10.2 Producing Visible Light

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Across

4. Fireflies produce their light by a _____ reaction.
5. A light-emitting diode (_____) is an electroluminescent light source made out of a material called a semiconductor.
8. _____ light is light emitted by some substances when they are exposed to electromagnetic radiation.
10. _____ light is light that is produced by an object, such as a metal, that is at a very high temperature.
12. A _____ light involves passing an electric current through the air, or another gas, between two carbon rods.
13. Bioluminescence is very common among

___ creatures.

Down

- A _____ is a substance that glows after being exposed to energized particles.
 The ability of a plant or animal to
- The ability of a plant or animal to produce light is called _____.
- 3. Producing light from friction is called
- 6. In a _____ display, each colour is a tiny fluorescent light in which an electrical signal causes a gas, such as neon, to release ultraviolet radiation.
- 7. Only 5 percent of the electrical energy used in an incandescent light bulb is converted to light. The rest of the energy is released as
- 9. Compact fluorescent light bulbs are much more _____ than incandescent light bulbs.

Across

14. _____ is the ability to store the energy from a source of light and then emit it slowly over a long period.
15. An organic light-emitting display (____) is a light source made of several extremely thin layers of organic molecules that use an electric current to produce light.
16. A _____ is a solid that can change the orientation of its molecules like a liquid, but only when electricity is applied.
18. ____ is light produced from a chemical

reaction without a rise in temperature.

19. The process of transforming electrical

energy directly into light energy is called

Down

- 11. Investigators use a chemical called _____ to detect traces of blood because the chemical glows when it reacts with the iron found in blood.
- 17. In a liquid crystal display (_____), a white light, such as a fluorescent light or light-emitting diode, shines behind a liquid crystal.