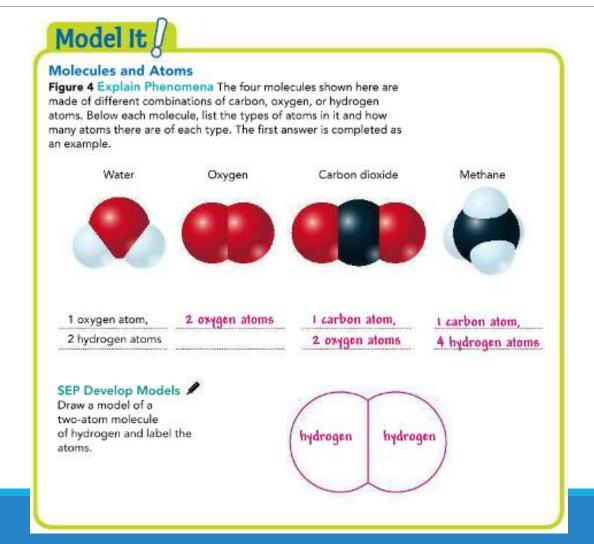
## Lesson 1

**ANSWER KEYS** 

## Figure 2



## Figure 4



## Reading Checks

easily something burns. Is this a physical or chemical property? Explain, using an example.

It's a chemical property. When substances burn, they are reacting with oxygen to become something else. For example, methane is flammable because when it combines with oxygen, it burns.

READING CHECK Integrate With Visuals How are pure carbon, oxygen, and hydrogen different from the compound ethanol which contains all three of those elements? Ethanol is a compound, while pure carbon, oxygen, and hydrogen are molecules each made of a single element. Ethanol also has different properties from the pure elements; it is made from sugars in corn.

READING CHECK Apply Scientific Reasoning Think about a lake. Would you describe it as a homogeneous mixture, a heterogeneous mixture, or both? Explain.

It's both. The water itself is a solution, but the water has lots of other stuff in it including algae, fish, and other organisms.