

3. Why does the temperature of the water increase?

- a. The **thermal** energy of the cashew nut converts to **chemical** energy in the water.
- b. The **chemical** energy of the cashew nut converts to **thermal** energy in the water.
- c. The **thermal** energy of the cashew nut converts to **kinetic** energy in the water.
- d. The **kinetic** energy of the cashew nut converts to **thermal** energy in the water.

4. We learned in chemistry that burning is a chemical reaction. What is the cashew nut reacting with during the experiment?

- a. The thermal energy.
- b. The water in the beaker.
- c. The oxygen in the air.
- d. The carbon dioxide in the air.

5. We learned in chemistry that burning is a chemical reaction. What are **two** things released during the chemical reaction demonstrated in the lab? (Circle 2 answers)

- a. The thermal energy.
- b. The water in the beaker.
- c. The oxygen in the air.
- d. The carbon dioxide in the air.

6. Answer the question to prepare for class tomorrow. Think about the cashew nut as food you might digest and allow to diffuse into your cells. Use this lab to explain the following:

- Why do you inhale .04% carbon dioxide, but exhale 4.5% carbon dioxide?

- Why do you inhale 21% oxygen, but exhale 17% oxygen?

- How does food become energy for your body?