Balancing Equations Pre-Assessment **ANSWER KEY**

1. Rate 1 – 10 with 1 = Not Comfortable and 10 = Very Comfortable.
2. Do you feel comfortable with solving algebraic equations? \_\_\_\_\_\_
3. Is algebra confusing? \_\_\_\_\_\_
4. Solving equations confusing? \_\_\_\_\_\_

2. Circle “Yes” or “No” if you understand any of these terms:

* Equation: Yes No
* Integer Yes No
* Constant Yes No
* Unknown variable: Yes No
* Coefficient Yes No

3. Can you solve for the unknown in 2x = 3 – 1? If yes? ☺ Solve below.

**2x = 3 – 1**

**2x = 2**

$$\frac{2x}{2}=\frac{2}{2}$$

**x = 1**

4. Have you played with LEGO Mindstorms before? Circle: Yes or No. If yes, where and when?

5. Do you know what a color sensor is? Circle: Yes or No.

 If yes, please explain your definition.

**A color sensor is a sensor that can distinguish between different shadings of light and dark. It is typically used on robots to help them “see” and detect objects of different light and dark contrast.**