

Name _____

Date _____ Period/Teacher _____



1. VOCABULARY – Define the following terms.

Unbalanced force –

Balanced force –

6.8B

2. An object that is at rest will begin to move if which of the following is true?

- A. The surface on which it rests is frictionless.
- B. The mass of the object is sufficient.
- C. Unbalanced forces act on the object.
- D. Gravity on the object can be reduced.

6.8B

3. Which classroom activity will demonstrate how two substances can be combined to form a new substance?

- A. building an electrical circuit
- B. mixing salt with water until the salt dissolves
- C. heating solid water until it turns into a liquid and then a gas
- D. allowing an iron nail to react chemically with the atmospheric oxygen

6.5C

4. Fill in the blanks with the following terms:

kinetic energy position
potential energy motion

Some objects that are at rest may have stored energy because of their _____.

The name for this type of energy is _____ . It is called this because it has the potential to do work.

Objects that are in _____ have _____. The amount depends on the object's mass and velocity.

6.8A

5. VOCABULARY – Define the following term.

Average –

How do you calculate average?

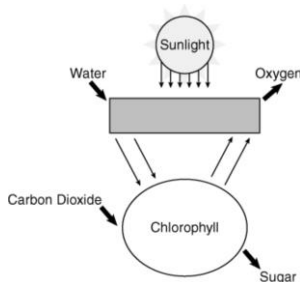
6.2D

6. A student science group grew bean plants for an experiment. The students measured the 4 plants. The following heights were measured in centimeters: 10, 12, 10, and 16. What was the average height of the plants?

- A. 4 cm
- B. 10 cm
- C. 12 cm
- D. 16 cm

6.2D

7. One of the basic processes for life on Earth is shown in the diagram. Why is this classified as a chemical change?



- A. It occurs in nature
- B. It occurs in the chloroplasts of plants
- C. Solar energy is used as energy for the process
- D. Sugar and oxygen are new substances that are produced

6.5C

8. A push or pull that can change the motion of an object is a _____.

- A. Motion
- B. Speed
- C. Acceleration
- D. Force

6.8B