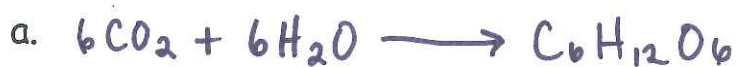


Physical and Chemical Changes Review

1. List 3 physical properties of substances.
2. List 3 chemical properties of substances.
3. Explain what a physical change is and how you can tell if one has taken place. Use an example in your explanation.
4. Explain what a chemical change is and how you can tell if one has taken place. Use an example in your explanation.
5. Is there usually a loss or gain of energy involved with a chemical reaction?
6. What is the only type of physical reaction that takes in or gives off energy?
7. Do the types of atoms and numbers of atoms change in either type of reaction?
8. Classify the following reactions as physical or chemical and explain why.



9. A) What do we call the substances we start out with, reactants or products?

B) What do we call the substances we end with, reactants or products?

10. For each of the following, decide if you think it is a chemical or physical change, and explain why.

a. Soured milk smells badly because bacteria have formed new substances in the milk.

b. You chop up basil, garlic and pine nuts and mix them with oil to form pesto.

c. Your food digesting in your digestive system.

d. You cut an apple, leave it on the counter and it turns brown.

e. You cut your lawn.

f. You fry an egg for breakfast.

g. You snap a light stick so that the 2 chemicals mix and start to glow.

h. A jeweler melts down solid gold into liquid and casts it into a charm for a bracelet.

i. Your hair gets bleached by the sun from being outside so much over the summer.