

LESSON 10. TEST

1) Sort these changes into appropriate columns: (___/10)

Sharpening a pencil; fireworks exploding; food coloring mixed into water; coloring a picture; baking soda reacting with vinegar; cooking a steak; cheese becoming moldy; chopping a tree; mixing peas and carrots; digesting food.

Physical changes	Chemical changes

2) Determine the reactants and the products of the following reactions: (___/8)

a. Copper reacts with oxygen to produce copper two oxide.

Reactants:

Products:

b. Chlorine gas reacts with methane and carbon tetrachloride to produce hydrogen chloride.

Reactants:

Products:

c. Adding sodium oxide to water produces sodium hydroxide.

Reactants:

Products:

d. Iodine crystals and chlorine gas react to make solid iron and carbon dioxide gas.



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Reactants:

Products:

3) A balloon was filled with steam ($t > 100\text{ }^{\circ}\text{C}$) and put in a container of refrigerator ($t < 10\text{ }^{\circ}\text{C}$). Draw a temperature-time graph. (___/2)

4) Draw a water cycle! (___/2)



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- 5) State the solvent and the solute in the following solutions: (___/8)
- a. Bronze (Copper + tin)
 - b. Natural gas (Methane + Butane)
 - c. Toothpaste (toothpaste + abrasives)
 - d. Liquid soap (soap + water)
- 6) Copper and silver can both be used in electrical wiring. (___/2)
- (a) Which properties make them good metals to use for electrical wiring?
- (b) Why is copper more likely to be used than silver?
- 7) State the formula and draw the hydrocarbon with 9 carbon atoms (___/2)
- 8) Write the equation for: (___/2)
- a. Complete combustion of ethane (C_2H_6)
 - b. Incomplete combustion of butane (C_3H_8)
- 9) Explain what is greenhouse effect and suggest how we can prevent it. (___/5)