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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 °C) and put in a container of refrigerator (t < 10 °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)

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