United Streaming Physical Science: Chemical Reactions

Complete this worksheet as you watch the video.

1. A chemical is the process of one or more substances converting to form new substances with different properties.
2. In chemical reactions, there are classes of substances – those substances which are present before the
chemical change and those substances which are formed by the change are substances that enter a
chemical reaction are substances that are produced by a chemical reaction.
3. A chemical is an expression using chemical symbols to represent a chemical reaction.
4. In chemical reactions, the overall of the substances reacting does not increase or decrease. The changes
that occur in a reaction involve the rearrangement of atoms, not the destruction or production of matter. This is
expressed in the Law of Conservation of Mass, which states that mass cannot be or in a
chemical reaction.
5. A is a number written in front of chemical elements or compounds indicating the number of atoms or molecules of a substance present in the reaction.
6. A reaction occurs when two or more simple substances combine to form a more complex substance.
7. In a reaction, a substance breaks down or decomposes into two or more simpler substances.
8. In a reaction, atoms of one element replace atoms of another element in a compound.
9. A reaction involves atoms in two different compounds trading places with each other.
10. Chemical reactions involve being given off or being absorbed. An reaction
releases energy, such as the burning of paper. An reaction absorbs energy which results in an overall
lowering of temperature.
11. The reaction rate is the with which reactants turn into products.
12. An increase in temperature the reaction rate.
13 refers to the amount of the material that comes in contact with other reactants.
14 is the amount of a substance in a given unit of volume.
15. A is a substance that increases the reaction rate but is not changed by the reaction. Most animals
contain catalysts called that accelerate important chemical reactions such as the digestion of food.

Video quiz on back ...

Video Quiz – Write in the answers as you watch the video quiz.
1. A chemical is the process of one or more substances converting to form new substances.
2. The substances that enter into a chemical reaction are called
3 are substances that are produced by a chemical reaction.
4. In a chemical reaction cannot be gained or lost.
5. In a chemical equation the number of atoms of reactants and products must
6. Iron combining with oxygen to form a more complex substance is an example of a reaction.
7. In a decomposition reaction a complex substance is broken down into substances.
8. In a single-replacement reaction atoms of one element atoms of another element in a compound.
9. An reaction releases energy.
10. The reaction is the speed with which reactants turn into products