

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.