|  |  |
| --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Chemistry Review

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 2C |  O |  M |  P |  O |  U |  N |  D |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  N |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  M |  |  | 3M |  |  |  | 4M |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5P |  E |  R |  I |  O |  D |  |  |  E |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 6P |  |  |  |  |  |  T |  |  |  L |  |  |  |  T |  |  |  |  |  |  |  |
|  |  |  |  |  | 7N |  E |  U |  T |  R |  O |  N |  |  |  |  A |  | 8R |  E |  A |  C |  T |  A |  N |  T |  S |  | 9N |  | 10C |
|  |  |  |  |  |  |  |  |  |  O |  |  |  |  |  |  L |  |  |  C |  |  |  |  L |  |  |  |  |  E |  |  O |
|  |  |  | 11S |  |  |  |  |  |  T |  |  | 12A |  |  |  S |  |  |  U |  | 13C |  |  S |  |  | 14C |  |  U |  |  N |
|  |  |  |  Y |  |  |  |  | 15I |  O |  N |  I |  C |  |  |  |  |  |  L |  |  H |  |  |  |  |  O |  |  T |  |  S |
|  |  |  |  N |  |  |  |  |  |  N |  |  |  I |  |  | 16B |  |  |  A |  |  E |  |  |  |  |  N |  |  R |  |  E |
|  |  |  |  T |  |  |  |  |  |  | 17I |  N |  D |  I |  C |  A |  T |  O |  R |  |  M |  |  |  |  |  D |  |  A |  |  R |
|  |  |  |  H |  | 18A |  | 19C |  |  |  |  |  |  |  |  S |  |  |  |  |  I |  |  |  |  |  U |  |  L |  |  V |
|  | 20E |  L |  E |  C |  T |  R |  O |  N |  |  | 21E |  L |  E |  M |  E |  N |  T |  |  |  C |  |  |  |  |  C |  |  I |  |  A |
|  |  |  |  S |  |  O |  |  E |  |  |  |  |  |  |  |  |  |  | 22V |  |  A |  |  |  |  |  T |  |  Z |  |  T |
|  |  |  |  I |  |  M |  |  F |  | 23P |  E |  R |  I |  O |  D | 24I |  C |  T |  A |  B |  L |  E |  |  |  |  I |  |  A |  |  I |
|  |  |  |  S |  |  |  |  F |  |  |  |  |  |  |  |  O |  |  |  L |  |  F |  |  |  |  |  V |  |  T |  |  O |
|  |  |  |  | 25F |  A |  M |  I |  L |  Y |  |  |  |  |  |  N |  | 26D |  E |  C |  O |  M |  P |  O |  S |  I |  T |  I |  O |  N |
|  |  |  |  |  |  |  |  C |  |  |  |  |  |  |  |  |  |  |  N |  |  R |  |  |  |  |  T |  |  O |  |  O |
|  |  |  |  |  |  | 27S |  I |  N |  G |  L |  E |  D |  I |  S | 28P |  L |  A |  C |  E |  M |  E |  N |  T |  |  Y |  |  N |  |  F |
|  |  |  |  |  |  |  |  E |  |  |  |  |  |  |  |  R |  |  |  E |  |  U |  |  |  |  |  |  |  |  |  M |
|  |  |  |  |  |  |  |  N |  |  |  |  |  |  |  |  O |  |  |  |  |  L |  |  |  |  |  |  |  |  |  A |
|  |  |  |  |  |  |  |  T |  | 29D |  O |  U |  B |  L |  E |  D |  I |  S |  P |  L |  A |  C |  E |  M |  E |  N |  T |  |  |  S |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  U |  |  |  |  |  |  |  |  |  |  |  |  |  |  S |
|  |  |  |  |  |  |  |  |  |  | 30C |  H |  E |  M |  I |  C |  A |  L |  R |  E |  A |  C |  T |  I |  O |  N |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  T |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across****2.** A pure substance that contains two or more different elements.**5.** Rows in the periodic table.**7.** A subatomic particle found in the nucleus of an atom. It has no charge.**8.** Substances that react together in a chemical reaction.**15.** A compound that forms between a metal and a non-metal after electrons are transferred. **17.** A substance that changes colour when added to an acid or a base.**20.** A negatively charged subatomic particle that orbits the nucleus of an atom.**21.** A pure substance that cannot be broken down.**23.** A system for organizing elements into columns and rows based on their properties. (2words)**25.** Columns in the periodic table.**26.** A reaction in which one compound breaks down into two or more simpler compounds.**27.** A reaction in which one element takes the place of another element in a compound. (2words)**29.** A reaction in which the metal ions of two different compounds exchange places. (2words)**30.** A change in matter that produces new substances with new properties. (2words) | **Down****1.** Elements on the right side of the periodic table. They are not malleable, not conductive, and exist in a number of states at room temperature.**3.** A compound that forms between non-metals as they share electrons.**4.** Elements on the left side of the periodic table. They are malleable, shiny, conductive, and solid at room temperature.**6.** A positively charged subatomic particle found in the nucleus of the atom.**9.** A reaction between an acid and a base that produces salt and water.**10.** Law describing the fact that the total mass and number of atoms is the same before and after a reaction. (3words)**11.** A reaction in which two or more reactants combine to produce a new product.**12.** A compound that tastes sour, corrodes metal and tissue, and turns blue litmus paper red.**13.** A group of letters and subscript numbers that represent the make-up of a chemical compound. (2words)**14.** Ability to conduct (transfer) electricity.**16.** A compound that tastes bitter, feels slippery, corrodes tissue, and turns red litmus paper blue.**18.** The smallest unit of an element.**19.** The number in front of a product or reactant in a balanced chemical equation.**22.** Refers to either the outer orbital of an atom or the electrons found in the outer shell.**24.** An atom that has an electrical charge, either positive or negative.**28.** New substances produced in a chemical reaction. |