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

Electric Charge and Current

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1P |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  R |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  A |  |  |  | 2C |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  L |  |  |  |  U |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  L |  |  |  |  R |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 3C |  L |  O |  S |  E |  D |  C |  I |  R |  C |  U |  I |  T |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  L |  |  |  |  E |  |  |  |  | 4C |  | 5P |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 6E |  L |  E |  C |  T |  R |  O |  N |  |  | 7P |  R |  O |  T |  O |  N |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  I |  |  |  |  T |  |  |  |  |  N |  |  S |  |  |  |  |
|  |  |  |  |  |  | 8E |  | 9C |  |  |  | 10R |  |  R |  |  |  |  |  |  | 11I |  |  D |  |  I |  |  |  |  |
|  |  |  |  |  |  |  L |  |  O |  |  |  |  E |  |  C |  | 12I |  |  | 13C |  O |  N |  D |  U |  C |  T |  O |  R |  |  |
|  |  |  |  |  |  |  E |  |  N |  |  |  |  P |  |  U |  |  N |  |  |  |  |  D |  |  C |  |  I |  |  |  |  |
|  |  |  |  |  |  |  C |  |  S |  |  | 14S |  E |  R |  I |  E |  S |  C |  I |  R |  C |  U |  I |  T |  |  V |  |  |  |  |
|  |  |  |  |  |  |  T |  |  E |  |  |  |  L |  |  T |  |  U |  |  |  |  |  C |  |  I |  |  E |  |  |  |  |
|  |  |  |  |  |  |  R |  |  R |  | 15N |  |  |  |  |  |  L |  |  |  |  |  T |  |  O |  |  L |  |  |  |  |
|  |  |  |  |  |  |  O |  |  V |  |  U |  | 16A |  T |  T |  R |  A |  C |  T |  |  |  I |  |  N |  |  Y |  |  |  |  |
|  |  |  |  |  |  |  S |  |  A |  |  C |  |  |  |  |  |  T |  |  |  |  |  O |  |  |  |  C |  |  |  |  |
|  |  |  |  |  |  |  T |  |  T |  |  L |  |  |  |  |  |  O |  | 17N |  |  |  N |  |  |  |  H |  |  |  |  |
|  |  |  | 18N |  E |  G |  A |  T |  I |  V |  E |  L |  Y |  C |  H |  A |  R |  G |  E |  D |  |  |  |  |  |  A |  |  |  |  |
|  |  |  |  |  |  |  T |  |  O |  |  U |  |  |  |  |  |  |  |  U |  |  |  |  |  |  |  R |  |  |  |  |
|  |  |  |  |  |  |  I |  |  N |  |  S |  |  |  | 19N |  |  |  |  T |  |  |  |  |  |  |  G |  |  |  |  |
|  |  |  |  |  |  |  C |  |  |  |  |  | 20O |  P |  E |  N |  C |  I |  R |  C |  U |  I |  T |  |  |  E |  |  |  |  |
|  |  |  |  |  |  |  S |  |  |  |  |  |  |  |  U |  |  |  |  O |  |  |  |  |  |  |  D |  |  |  |  |
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| **Across****3.** A \_\_\_\_\_\_\_ is an electrical circuit through which current can flow uninterrupted path.**6.** carries a negative charge**7.** Carries a positive charge**13.** a material that allows electrons to move easily through it**14.** Is a circuit that has only one path for the electric current to follow**16.** unlike charges do what**18.** an object that has more electrons than protons**20.** A discontinuous (broken) circuit through which no current can flow is called a | **Down****1.** Is circuit that has more than one path for the electric current to follow**2.** The flow of electric charge in an amount of time**4.** charging an object by contact with a charged object: charging by \_\_\_\_\_\_\_\_\_**5.** an object with fewer electrons than protons**8.** A study of electric charges at rest.**9.** The law that states that charges are neither created nor destroyed but only transferred from one material to another.**10.** like charges do what**11.** charging an object by bringing a charged object close to, but not touching. charging by \_\_\_\_\_\_ **12.** a material that does not easily allow electrons to move through it**15.** location protons and neutrons can be found**17.** carries no charge**19.** object with an equal number of electrons and protons |

   neutral       negatively charged       positively charged       Conduction       conductor       insulator       induction       Electrostatics       proton       electron       neutron       parallelcircuit       series circuit       nucleus       attract       repel       open circuit       closed circuit       Conservation       current