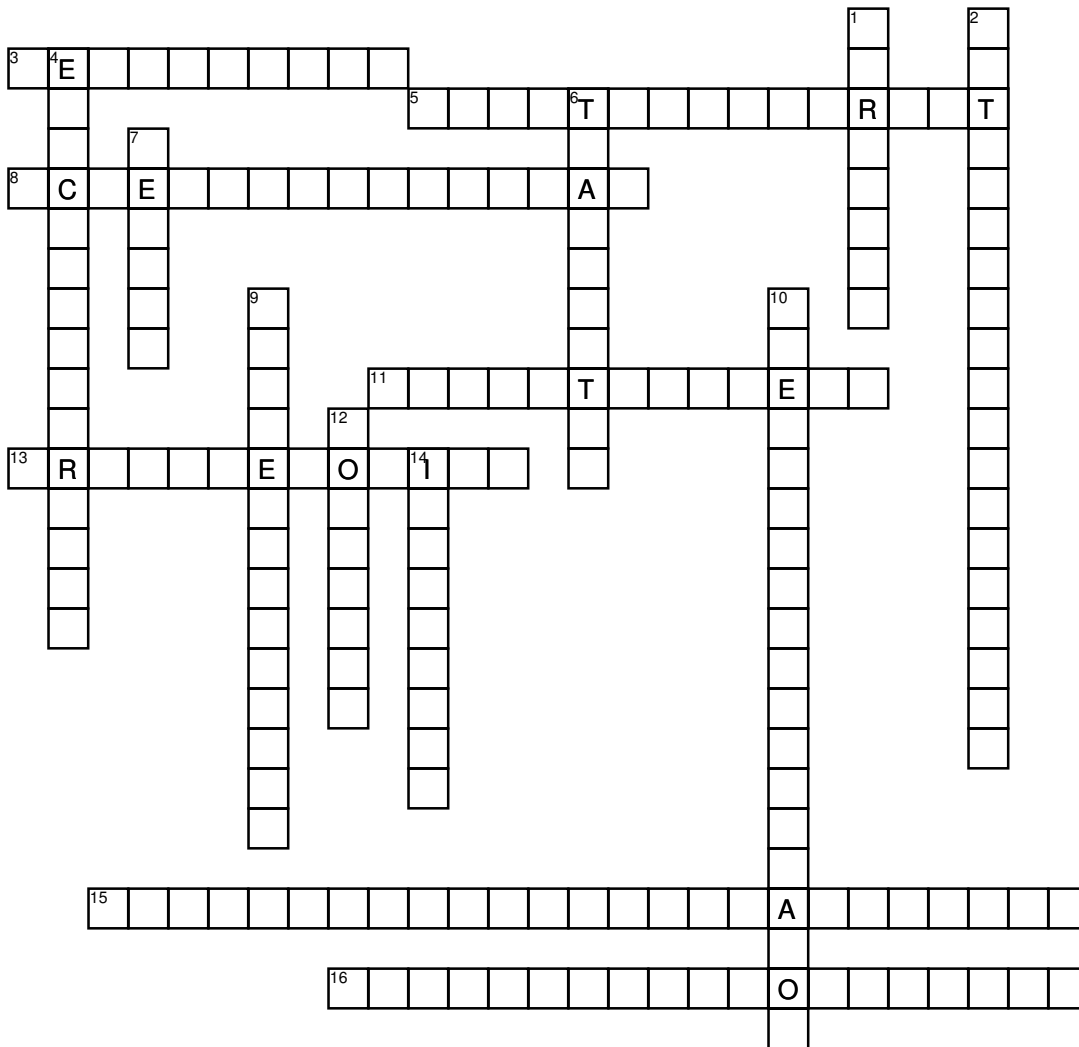


# Electricity, Holt\_Physics

Name \_\_\_\_\_ Date \_\_\_\_\_

Instructions: Complete the puzzle. Use the clues to help you fill the boxes with the correct words.



## ACROSS

3. the opposition presented to electric current by a material or device
5. the rate at which charges pass through a given area
8. a representation of a circuit that uses lines to represent wires and different symbols to represent components
11. a region where a magnetic force can be detected
13. the net velocity of a charge carrier moving in an electric field
15. potential energy associated with a charge due to its position in an electric field
16. a material in which charges can move freely

## DOWN

1. describes two or more components of a circuit that provide separate conducting paths for current
2. the work that must be performed against electric forces to move a charge between the two points in question divided by the charge
4. a set of electrical components connected such that they provide one or more complete paths for the movement of charges
6. a semiconductor device that can amplify current and that is used in amplifiers, oscillators, and switches
7. describes two or more components of a circuit that provide a single path for current
9. a region composed of a group of atoms whose magnetic fields are aligned in the same direction
10. a material in which charges cannot move freely
12. a long, helically wound coil of insulated wire
14. the process of charging a conductor by bringing it near another charged object and grounding the conductor