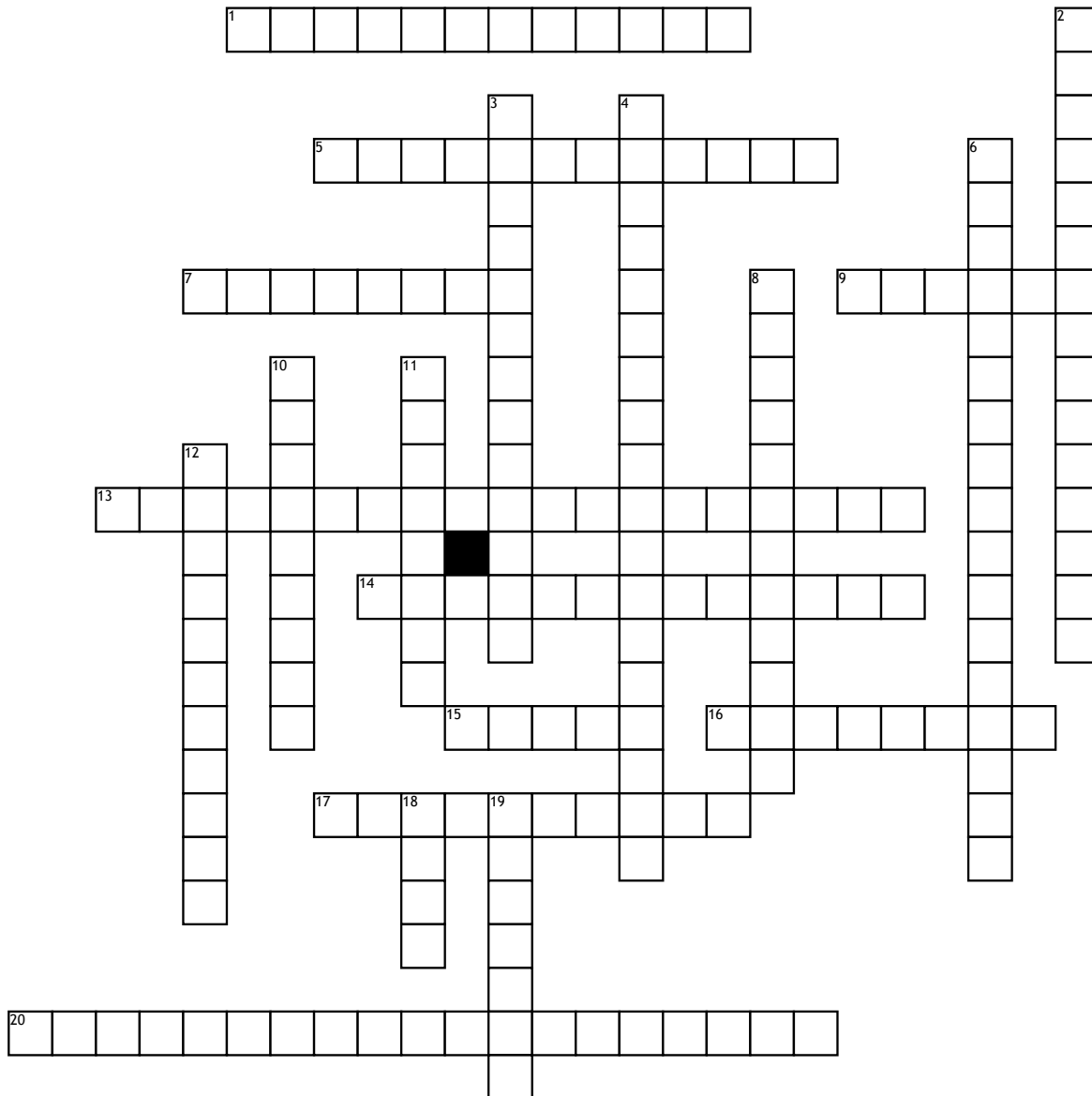


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Electricity in the home



## Across

1. A circuit that is created when the live wire touches the neutral wire  
 5. A system of cables across the UK transporting electricity from power stations to homes  
 7. A device found on an appliance that resists electric current  
 9. I x T  
 13. A material that conducts electricity  
 14. An electric current flowing in one direction  
 15. Word for the energy transferred to an appliance per second in Joules

16. A wire that the current flows through to carry current to an appliance at a high voltage  
 17. Useful energy output / total energy input x 100  
 20. A material that doesn't conduct electricity

## Down

2. A closed circuit which has several paths for the current to flow down  
 3. I x V  
 4. An electric current that changes direction very quickly  
 6. Q x V

8. Consists of a live and neutral wire  
 10. A wire which creates a route for the current to go down if the live wire breaks  
 11. Force that resists movement and transfers thermal energy to the surroundings as a result  
 12. A wire which does not have an electrical charge and carries the current away from the appliance  
 18. A safety feature on a plug that melts when too much current passes through it  
 19. The flow of electrons around a circuit