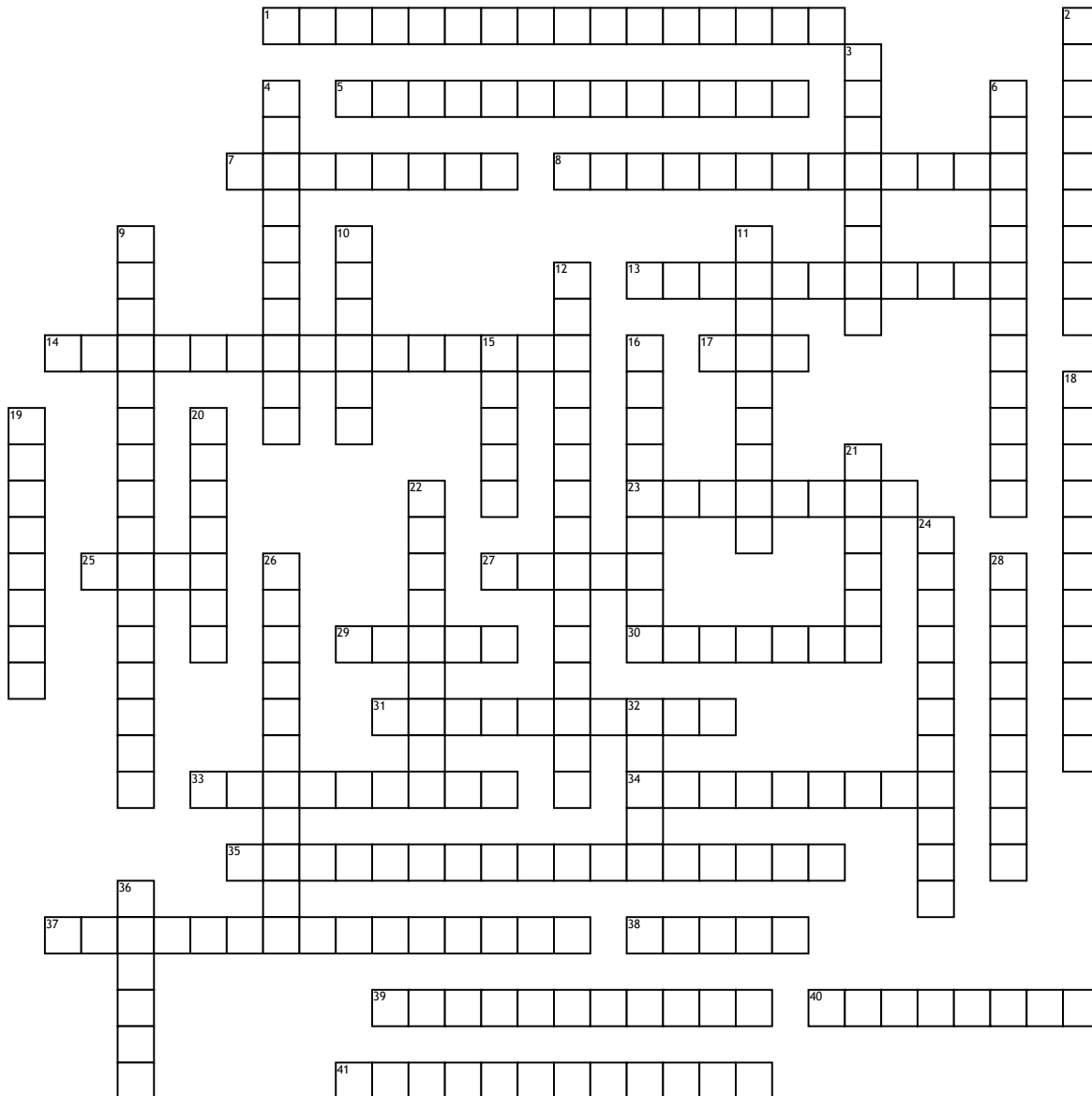


Name: \_\_\_\_\_

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

# Automation Vocabulary 1



## Across

1. The number of joints or moveable sections in a robot or mechanical system
5. A back and forth movement
7. A straight line passing from side to side through the center of a circle
8. An arrangement of elements in a particular form, figure, or combination
13. The component of a robot that comes into contact with the work piece and does the actual work on it
14. In robotics, a set of coded instructions the robot must follow
17. A robot construction kit that uses mechanical parts, motors, and sensors
23. One complete turn of a wheel or gear
25. A toothed wheel that works with others to alter the relation between the speed of an engine and the speed of the driven parts
27. A rod or spindle; axle
29. The rate at which something moves or operates
30. A system of parts working together in a machine
31. The ratio of the speed of the driving member of a gear train to that of the driven member
33. A threaded shaft used to convert rotary movement to linear movement

34. A series of actions conducted in a specified order
35. Direction that power flows through a mechanism
37. A combination of two or more gears used to transmit motion between two rotating shafts or between a shaft and a slide
38. A push or pull on an object
39. Locking mechanism used to prevent a shaft (axle) from sliding
40. Physical components of a system
41. Circular movement

## Down

2. One of multiple revisions in a repetitive process
3. Metal vex plate bent at right angles; resembles the letter C
4. The member of a pair of gears to which motion and power are transmitted by the other gear
6. Movement in a straight line
9. A mechanical arrangement consisting of a toothed wheel driven by a short revolving cylinder bearing a screw thread
10. The information or motion produced by a computer or mechanism
11. One of a pair of gears used to connect two shafts whose axes intersect at a 90 degree angle

12. A combination of two or more gears used to transmit motion between two rotating shafts or between a shaft and a slide
15. A machine that performs complicated tasks and is guided by automatic controls
16. A step-by-step procedure for solving a problem, especially by a computer
18. Movement of energy from one part of a mechanism to another
19. A metal or plastic cylinder that keeps two parts separated
20. Opposite in position, direction, order or effect
21. A twisting force
22. The gear which transmits power and motion to the rest of the system
24. A toothed wheel, cylinder, or cone that transmits motion from one part of a machine to another
26. Swinging back and forth at a regular rate
28. A gear between the driver and the driven gear used to change rotational direction
32. Information fed into a system
36. The effect or influence of one thing on another