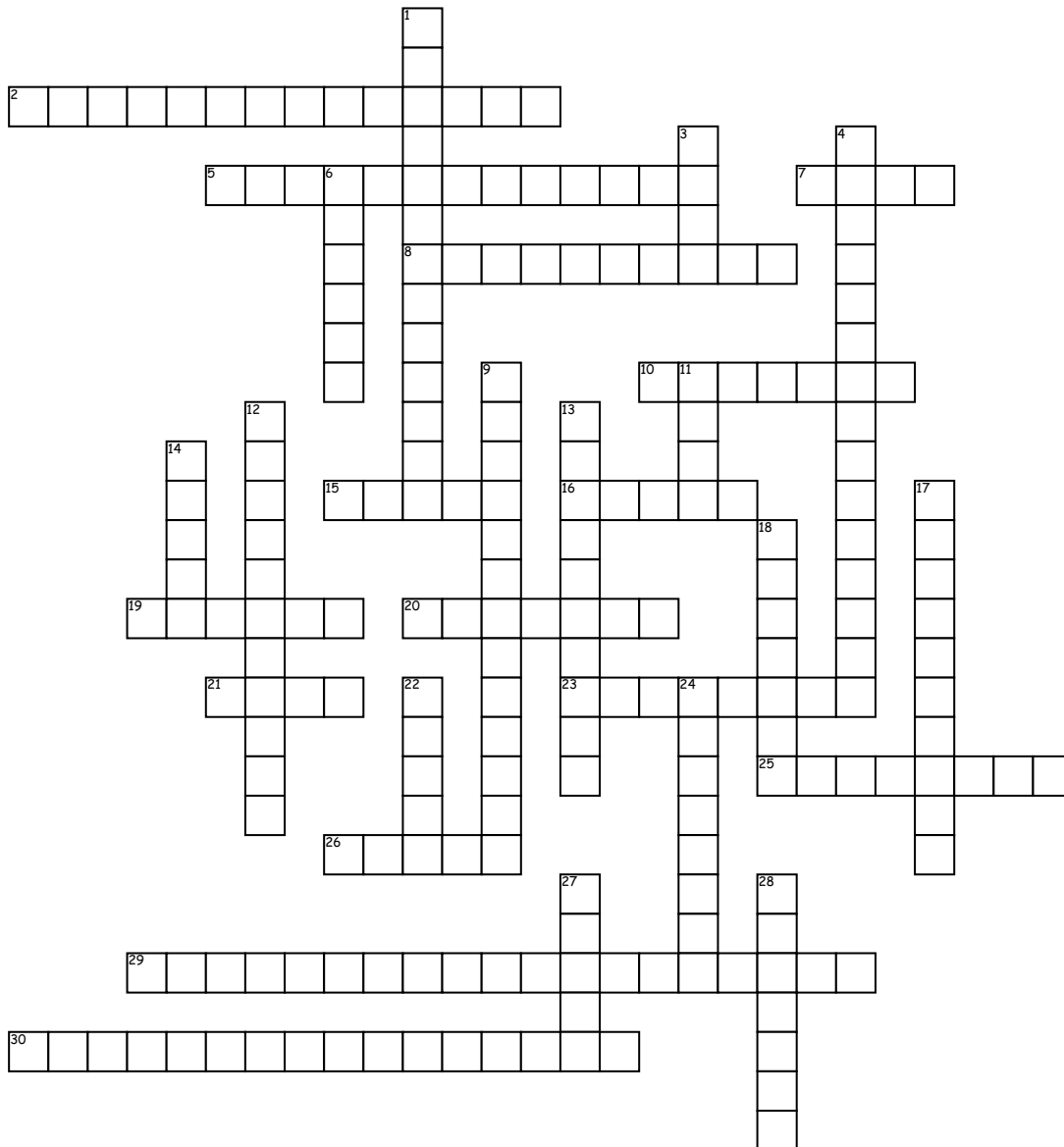


Name: _____ Date: _____ Period: _____

Work and Machines Crossword Puzzle



Across

2. Two forces acting in opposite directions on an object, and equal in size
 5. A machine designed to make work easier by increasing the distance and decreasing effort
 7. The transfer of energy that occurs when a force makes an object move
 8. The force applied to the machine and the force you exert
 10. A device that uses energy to perform an activity
 15. A circular object that revolves on an axle and is fixed below a vehicle or other object to enable it to move easily over the ground
 16. A simple machine that consists of an inclined plane wrapped in a spiral around a cylindrical post
 19. The unit used to measure force
 20. The resistance of any physical object to any change in its state of motion
 21. The object that is moved or lifted (known as the output force)

23. The overall force on an object when all the individual forces acting on it are added together
 25. measured as a product of an objects mass and velocity
 26. An influence that causes a free body to undergo acceleration; a push or a pull
 29. Output force ÷ input force; the number of times a machine multiplies the effort force
 30. Forces that cause a change in the motion of an object

Down

1. The forces that oppose the relative motion of an object through a fluid
 3. A type of lever that looks like a wheel with teeth
 4. Two or more simple machines that operate together
 6. A group of wheels with a rope, chain, or cable running along a groove
 9. A sloping surface that reduces the amount of force required to do work

11. A rod or spindle passing through the center of a wheel or group of wheels.
 12. The weight of the object of which force is being exerted to known as the load
 13. The force which an effort force must overcome in order to do work on an object via a simple machine
 14. The unit of work
 17. Ration of output work done by the machine to input work done on the machine expressed as a percentage
 18. The point on which a lever rests or is supported and on which it pivots
 22. A simple machine consisting of a bar free to pivot about a fixed point called a fulcrum
 24. A force that opposes motion
 27. A simple machine that is an inclined plane with one or two sloping sides
 28. a force that acts upon all objects