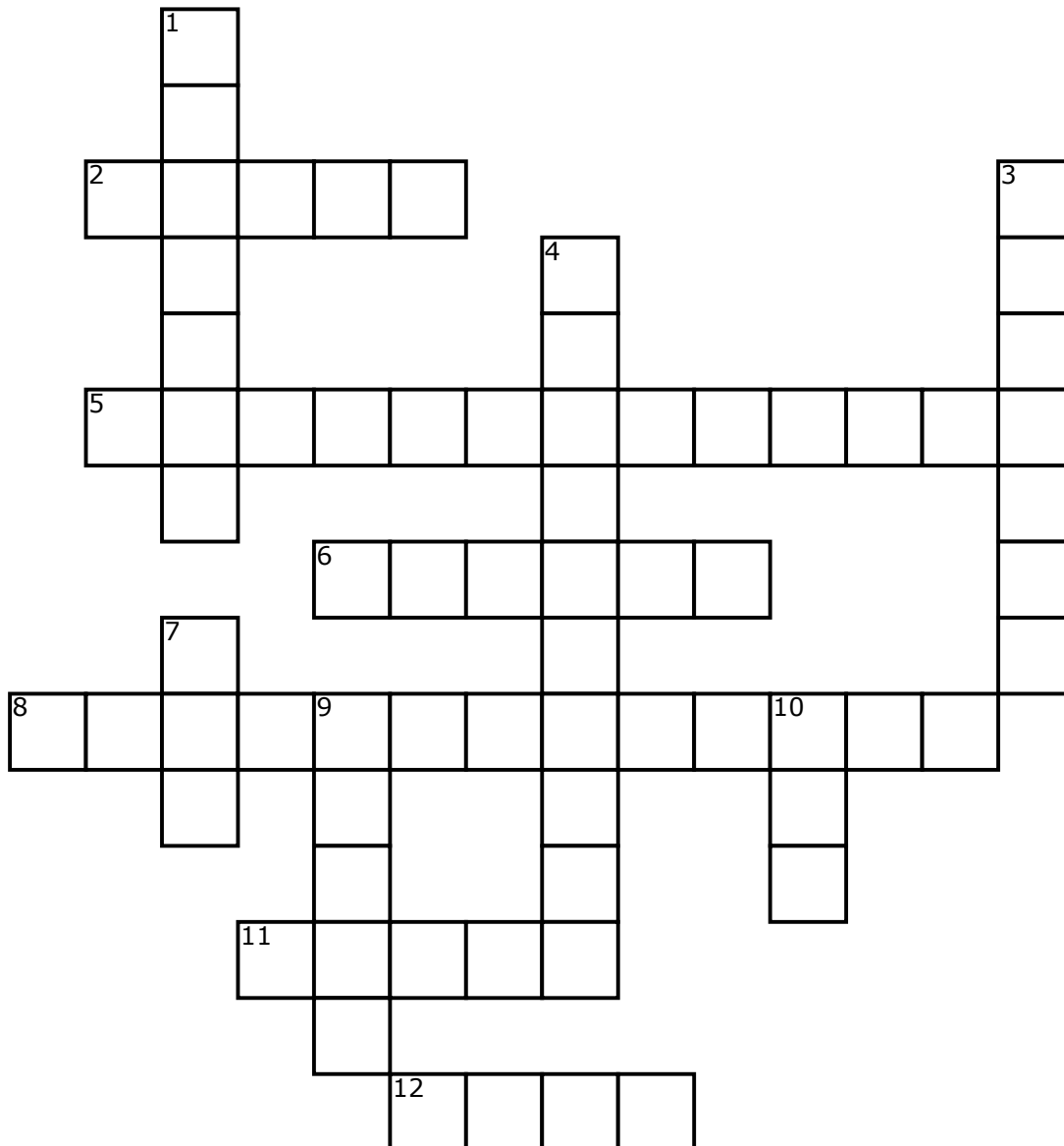


Name: _____ Date: _____ Period: _____

Mechanical Advantage (Simple Machines) Vocabulary Crossword Puzzle



Across

- 2.** an inclined plane wrapped around a cylinder or a wheel and axle used to create rotary motion, used as a threaded fastener, can change a rotary motion into a linear motion
- 5.** consists of a flat surface at an angle that is used to move heavy objects to a higher level
- 6.** a wheel and axle that support a cable or belt along the wheel's circumference, pulleys are used to transfer force or speed and lift loads

8. any device that only requires a single input force to do work

11. a triangular shaped tool; tapers to a thin edge which functions as a moving inclined plane, effort is applied to the top of the height

12. the force applied on an object times the distance traveled by the object

Down

1. a tool used to complete work with less effort

3. the energy of motion

4. a lever arm that is fixed to a shaft, they turn in the same direction, effort force is applied to the wheel or the axle

7. (Actual Mechanical Advantage) the ratio of the magnitude of the resistance and effort, friction losses are taken into advantage

9. a rigid bar resting on a pivot used to make moving objects easier

10. (Ideal Mechanical Advantage) the ratio of distance traveled by effort and resistance force, friction losses are not taken into consideration