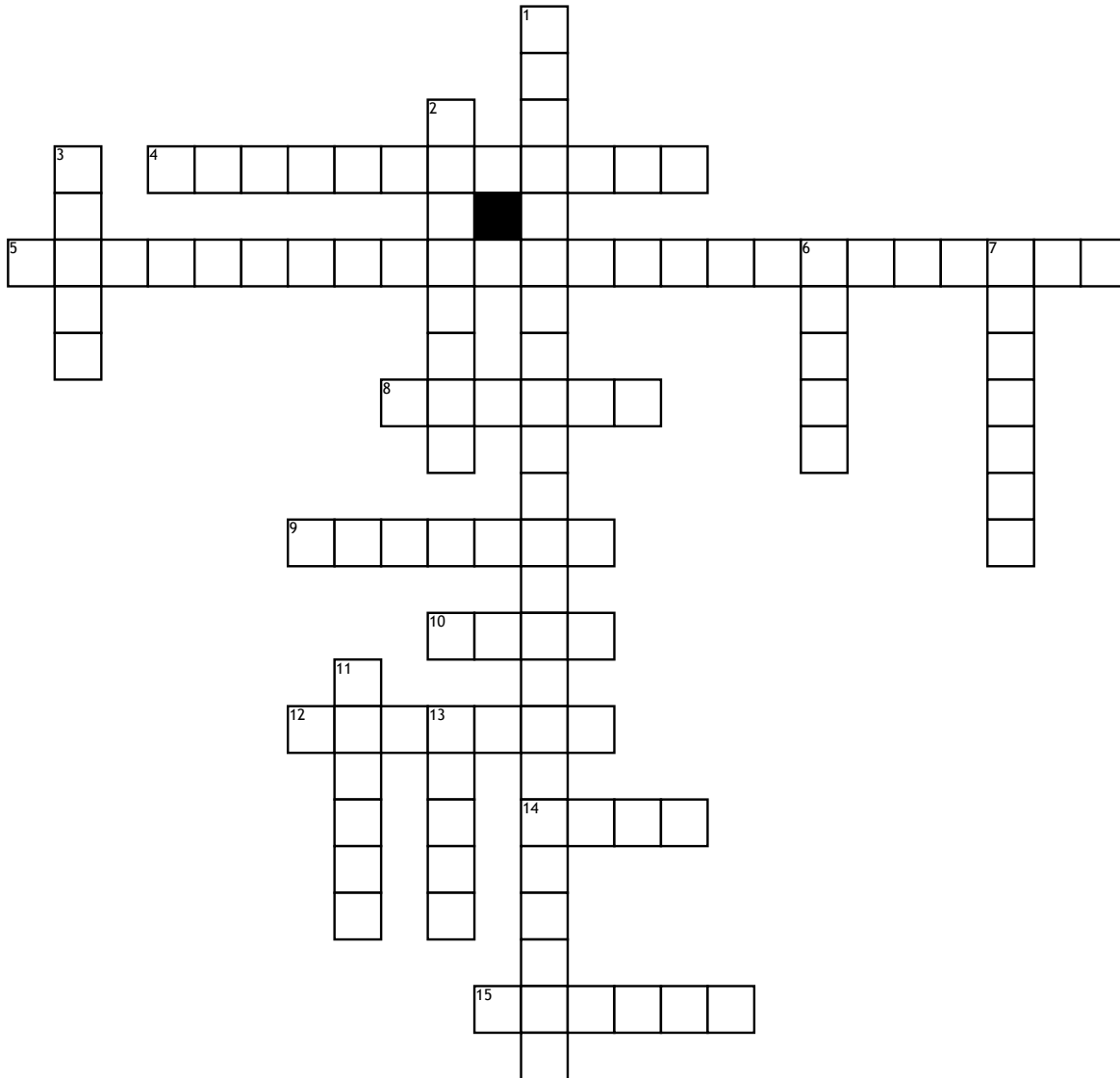


Name: \_\_\_\_\_

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

# Mechanical Forces



## Across

4. The rate of change in velocity; speeding up, slowing down, or changing direction.

5. Force equals mass times acceleration.  $F=ma$

8. The change in an object's position with respect to time and in comparison to the position of other objects used as reference points.

9. The force that attracts a body toward the center of the earth, or toward any other physical body having mass.

10. Force that appears whenever a fluid encounters a solid object.

12. When a force is transmitted through a string, rope, or wire.

14. The amount of matter in an object.

15. Any compression of any two surfaces against each other.

## Down

1. An object at rest stays at rest and an object in motion stays in motion with the same speed and in the same direction unless acted upon by an unbalanced force.

2. Arises when an object is being "urged" to slide across a surface or when an object actually is sliding across a surface.

3. The speed of something in a given direction.

6. An interaction between an object and another object or field that acts to change the motion of the object.

7. The resistance of any physical object to any change in its state of motion.

11. An interaction between any two objects of mass.

13. The rate at which someone or something is able to move or operate.