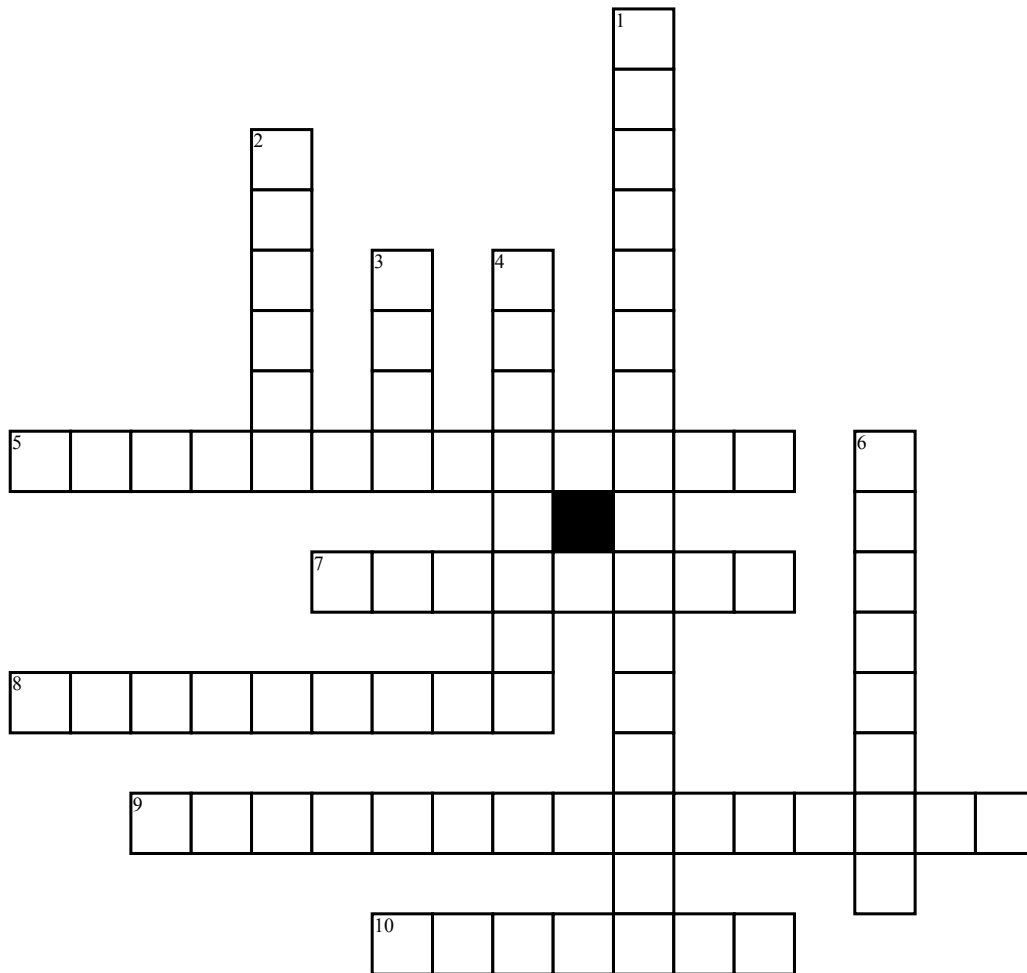


Name: \_\_\_\_\_

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

# Cross it out



**Across**

- 5. a toy that consists of a ball bearing in the center of a multi-lobed
- 7.  $I=mr^2$
- 8. is a type of fan that transmits power by converting rotational motion into thrust
- 9. Mass x distance from axis squared
- 10. it is used to exert force from the rides

**Down**

- 1. The motion of a rigid body which takes place in such a way that all of its particles move in circles about an axis with a common angular velocity; also, the rotation of a particle about a fixed point in space.
- 2. a twisting force that tends to cause rotation.
- 3. When a \_\_\_\_\_ moves further from the axis of rotation it becomes increasingly more difficult to change the rotational velocity of the system
- 4.  $I=1/2 mr^2$
- 6. the speed of something in a given direction.

**Word Bank**

- |                   |                |           |                   |
|-------------------|----------------|-----------|-------------------|
| moment of inertia | Fidget spinner | Propeller | Pendulum          |
| Velocity          | Mass           | Torque    | Rotational Motion |
| Cylinder          | Engines        |           |                   |