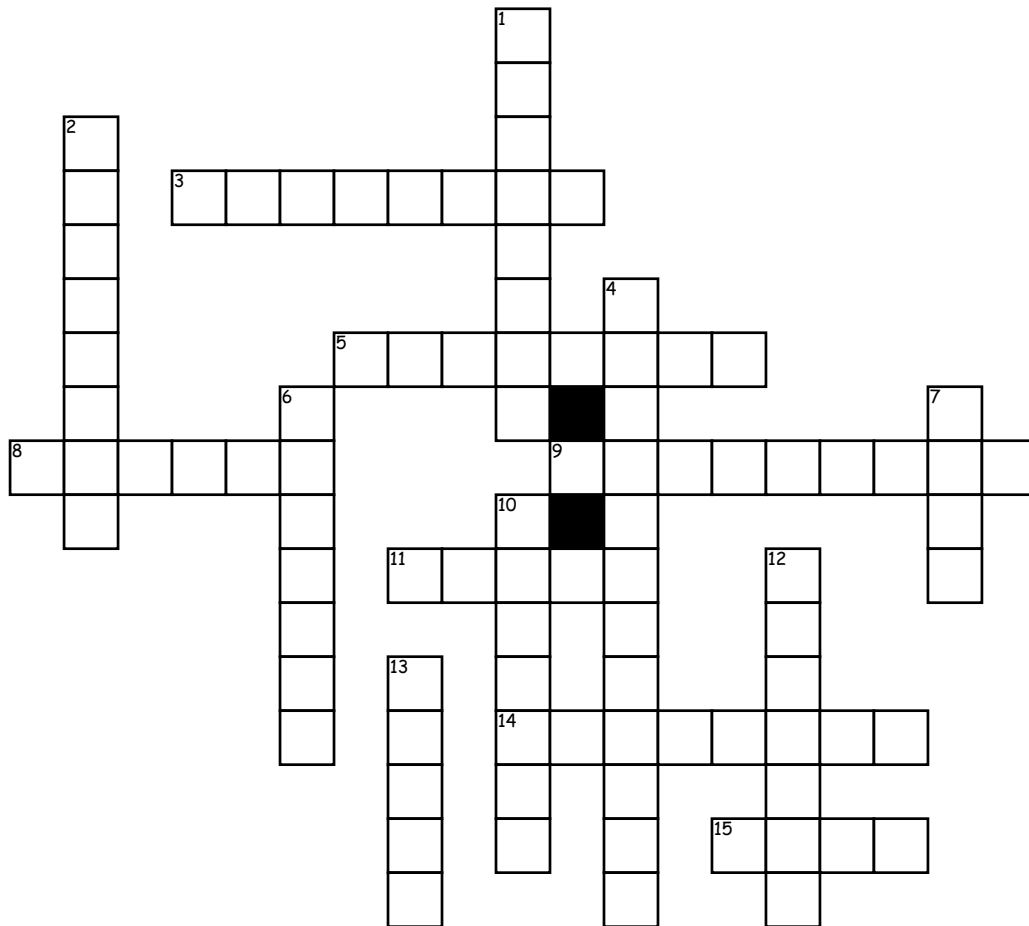


Newton's Law of Motion



Across

- 3. For every action there is a equal and opposite _____.
- 5. If the forces on an object are _____, the object will move at a constant speed.
- 8. The unit of measurement of force is the _____.
- 9. This law states that when an unbalanced force is applied to an object it causes it to accelerate.
- 11. A _____ can be simply defined as a push or a pull.

14. Newton's Third Law explains what happens when two objects _____.

15. When you sit on a chair, the net force on you is _____.

Down

- 1. The unit of measurement of mass is _____.
- 2. When two forces acting on an object are equal, they are _____.
- 4. _____ = Force / Mass

6. Newton's first law of motion is also known as the Law of _____.

7. An astronaut has the same _____ on Earth as on the moon.

10. Everything gets pulled down toward the earth's center because of the force of _____.

12. The greater the force that is applied, the _____ the acceleration.

13. What you get when you multiply an object's mass times the acceleration

Word Bank

- | | | | | |
|------------|----------|----------|--------------|---------|
| zero | reaction | balanced | inertia | mass |
| second law | greater | balanced | kilogram | force |
| force | Newton | interact | acceleration | gravity |