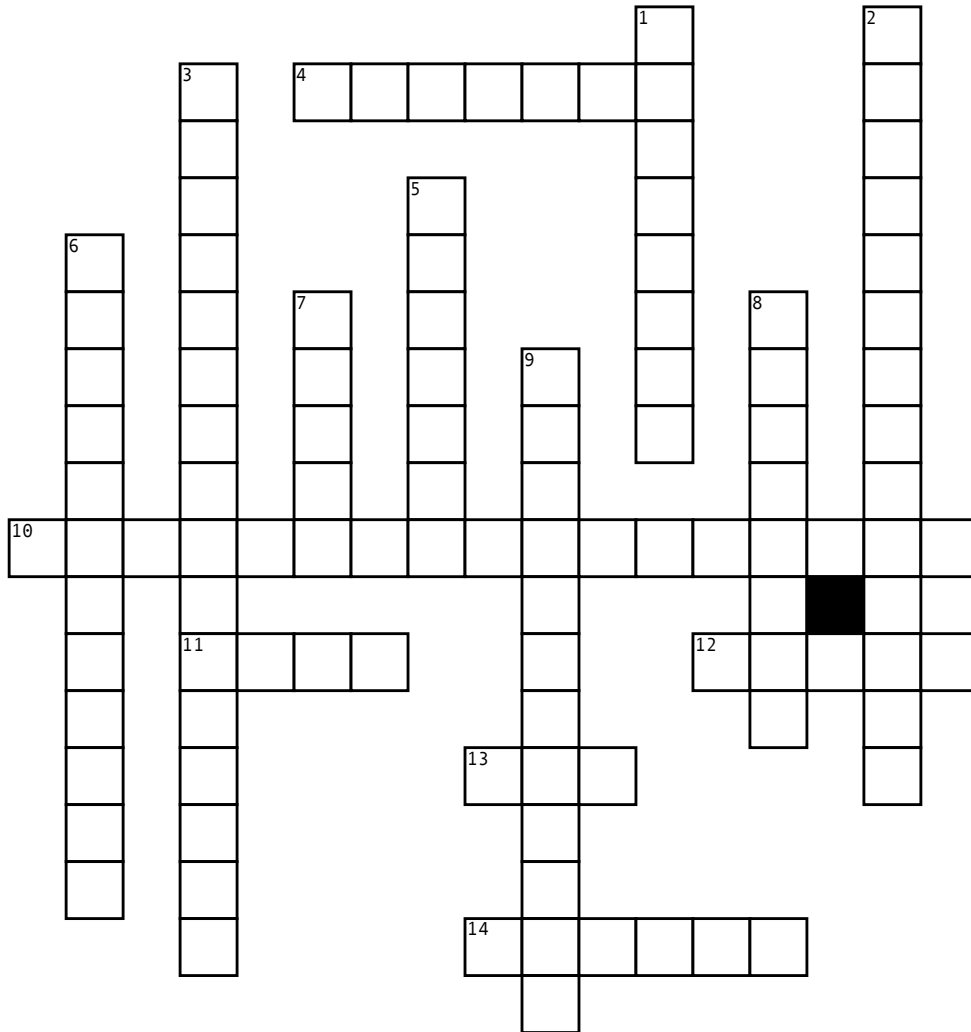


Newton's Second Law of Motion



Across

- 4. In physics, a force producing a finite change of momentum, described in Newton's second law
- 10. states that an object acted on by an unbalanced force will accelerate in the direction of the force with an acceleration equal to the force divided by the object's mass.
- 11. Quantity is Newton's Second law
- 12. A push or pull

Word Bank

- Third law of motion
- Speed
- Inertia
- Law
- Force

13. Newton's second ___ of motion

14. Like a body in Newton's first law

Down

- 1. the distance traveled divided by the time needed to travel the distance and the direction the object is moving in.
- 2. forces that are equal but in opposite directions and cancel each other out
- 3. states that forces act in equal but opposite pairs

5. The first law is also referred as

6. the change in velocity divided by the amount of time required for the change to take place;

7. the distance traveled divided by the time needed to travel the distance

8. Newton's second law, essentially

9. Formulation in Newton's "Principia"

- Impulse
- Law of Gravity
- Acceleration
- Velocity
- Mass

- Balanced forces
- At Rest
- Second law of motion
- Equation