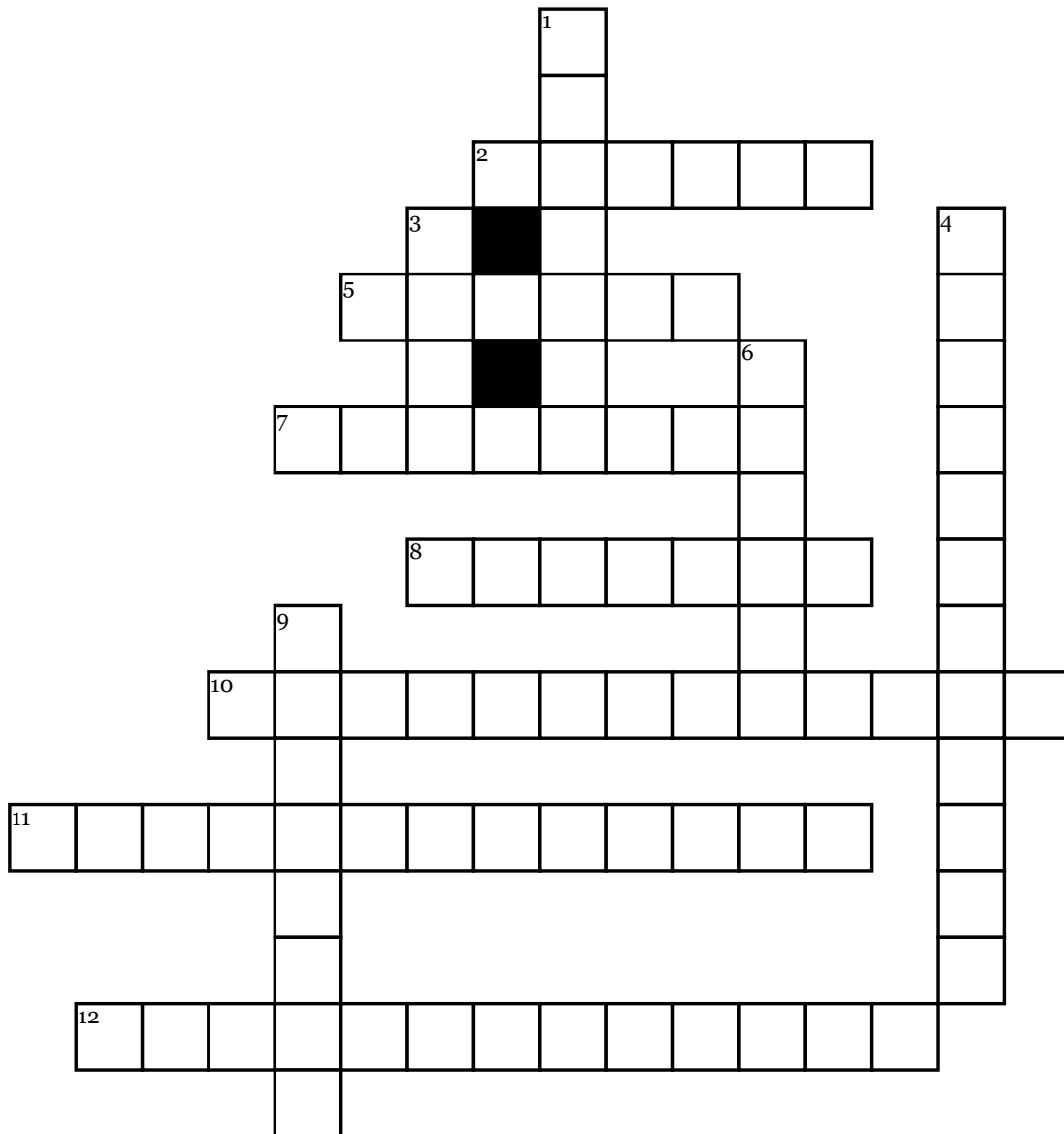


Newton's Laws Project



Across

- 2. a body's relative mass or the quantity of matter contained by it, giving rise to a downward force; the heaviness of a person or thing.
- 5. physical substance in general, as distinct from mind and spirit; (in physics) that which occupies space and possesses rest mass, especially as distinct from energy.
- 7. an amount of space between two things or people.
- 8. the force that attracts a body toward the center of the earth, or toward any other physical body having mass.

10. The behavior of objects for which all existing forces are balanced.

11. if an object is at rest or moving at a constant speed in a straight line, it will remain at rest or keep moving in a straight line at constant speed unless it is acted upon by a force.

12. that for every action (force) in nature there is an equal and opposite reaction.

Down

1. a property of matter by which it continues in its existing state of rest or uniform motion in a straight line, unless that state is changed by an external force.

3. a measure of the amount of matter in an object.

4. increase in the rate or speed of something.

6. the SI unit of force. It is equal to the force that would give a mass of one kilogram an acceleration of one meter per second per second, and is equivalent to 100,000 dynes.

9. the speed of something in a given direction.