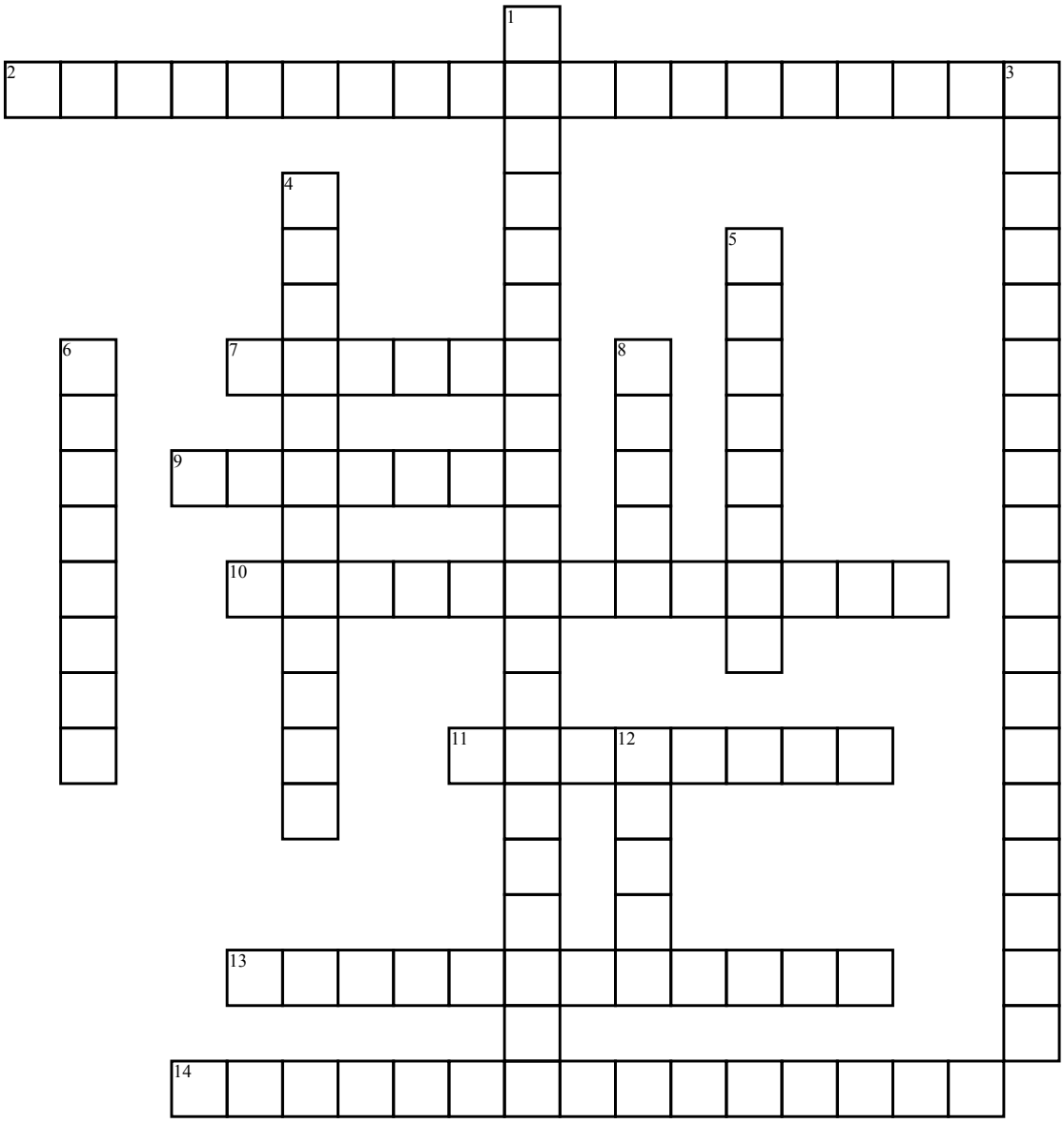
Force and Motion



Across

2. For every action, there is an equal and opposite reaction (Issac Newton's Third Law of Motion)

7. Derived unit of force in the SI system

9. When an object remains still or moves in a constant direction at a constant speed

10. Two forces acting in opposite directions on an object, and equal in size

11. The amount of force that is making the object change direction or motion

13. One of the primary manifestations of mass (Issac Newton's First Law of Motion)

14. A force that is not opposed by an equal and opposite force operating directly against the force intended to cause a change in the object's state of motion or rest

Down

1. This acceleration is directly proportional to the force (Issac Newton's Second Law of Motion)

3. The three laws of mechanics describing the motion of a body

4. The rate at which the speed of an object increases

5. Surface resistance to relative motion

6. The rate of speed with which something happens

8. The rate or a measure of the rate of motion

12. The capacity to do work or cause physical changes, energy, strength, or active power