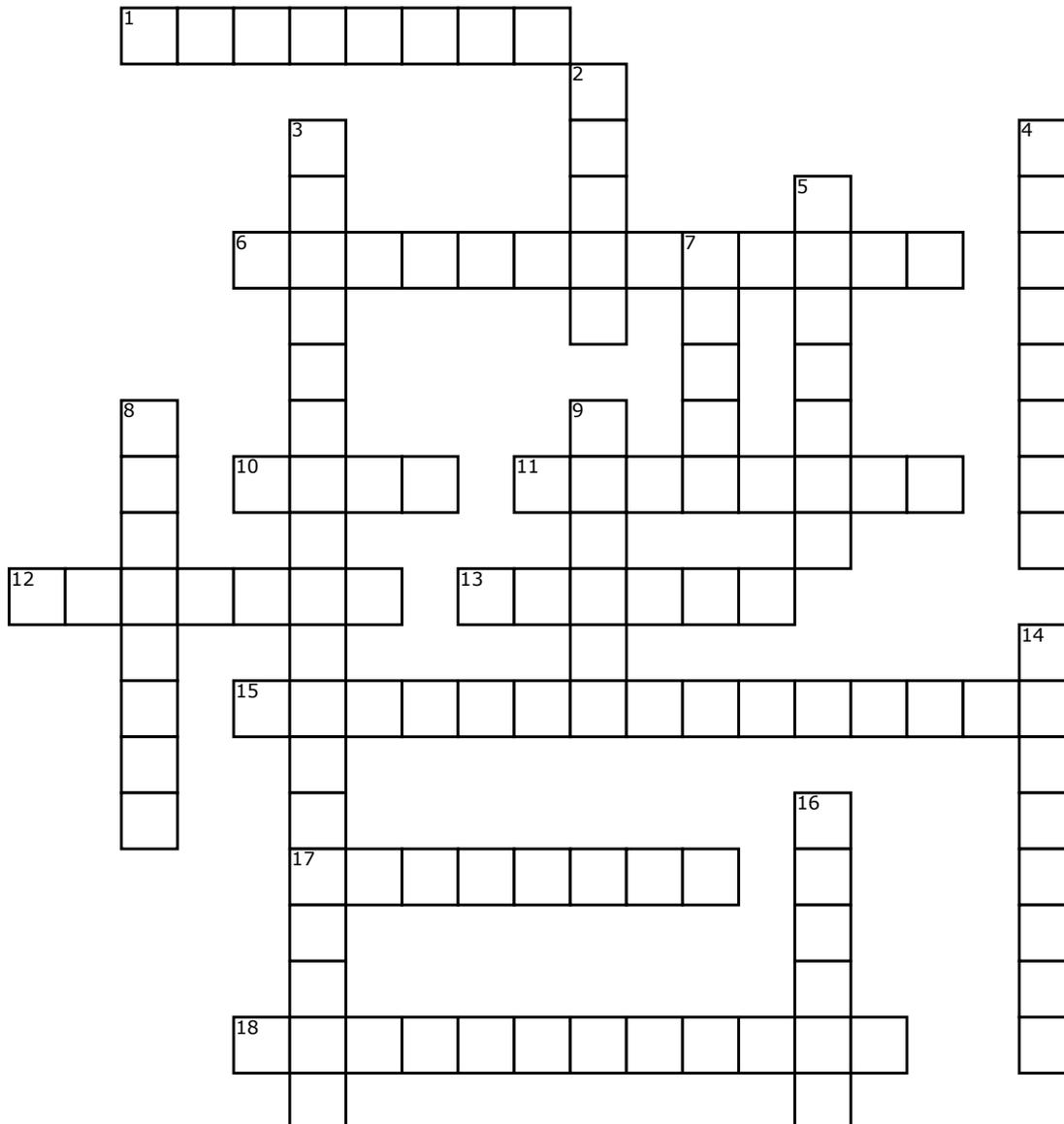


Force and Motion



Across

- 1.** The combination of all forces acting on an object
6. Force that doesn't cause a change in motion
10. The amount of matter in an object
11. Product of mass and velocity of an object
12. The tendency of an object to resist any change in motion
13. A measure of the gravitational force exerted on an object

15. Forces that are not equal or opposite; causing a change in motion

17. A force that opposes motion between two touching surfaces

18. Rate at which velocity changes over time

Down

2. Distance traveled by an object divided by time taken for the object to travel that distance

3. A force that attracts any object with mass

4. How much ground an object has covered

5. A force of attraction between objects that is due to their mass

7. A push or pull of an object in order to change the direction of the object

8. The motion of a body when only the force of gravity is acting on the body

9. A change in the position of an object

14. The speed of an object in a particular direction

16. The unit for force