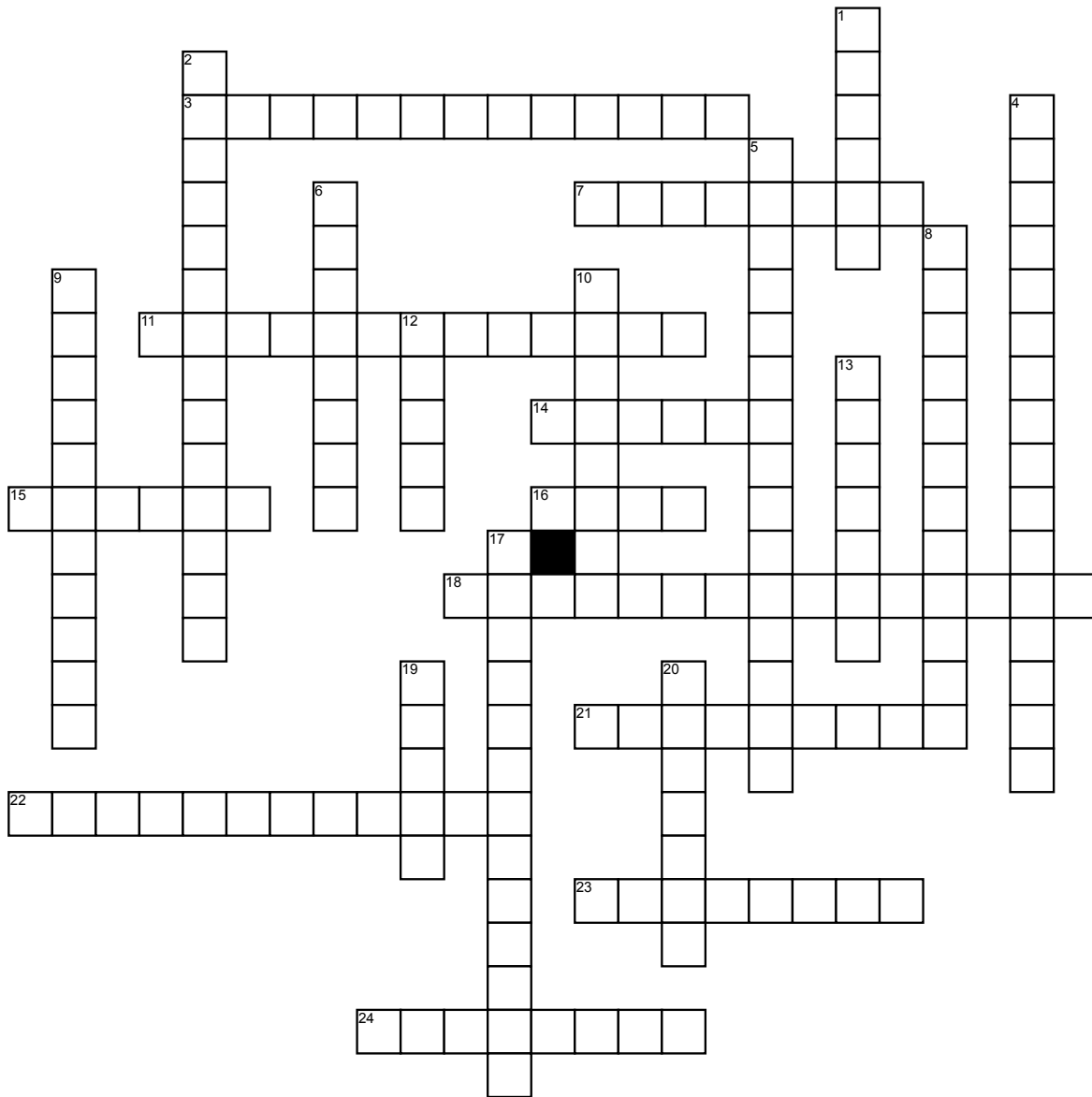


# Lesson 1 - 4 Cross Word



## **Across**

3. when this balances the force of gravity, an object falls at a constant speed
7. the force that resists sliding motion between two touching surfaces
11. when you drop a ball, this pulls the earth to the ball
14. if you were on Mars instead of Earth, this would be the only thing that changes
15. the direction of the force must be directed \_\_\_\_\_, toward the center of the curve/circle
16. how much matter is in an object
18. what makes a wheel turn

21. forces in the same pair have equal size but opposite...

22. this depends on the total distance traveled along a path
23. combination of all the forces acting on an object

24. speed in a certain direction

## **Down**

1. change in position
2. two or more forces acting on an object that cancel each other out and don't change the object's motion
4. forces that don't cancel each other out; when the net force is 0
5. a pull of gravity
6. the space between two points

8. rate in which velocity changes

9. if you drop a ball, gravity and this pulls the ball down to Earth

10. when gravity, and only gravity, pulls down on an object

12. when a planet travels around another planet

13. the tendency of all objects to resist a change in motion

17. this and downward motion combine with gravity to cause orbiting

19. measurement of how far something moves in a given time

20. force of attraction between objects due to their mass