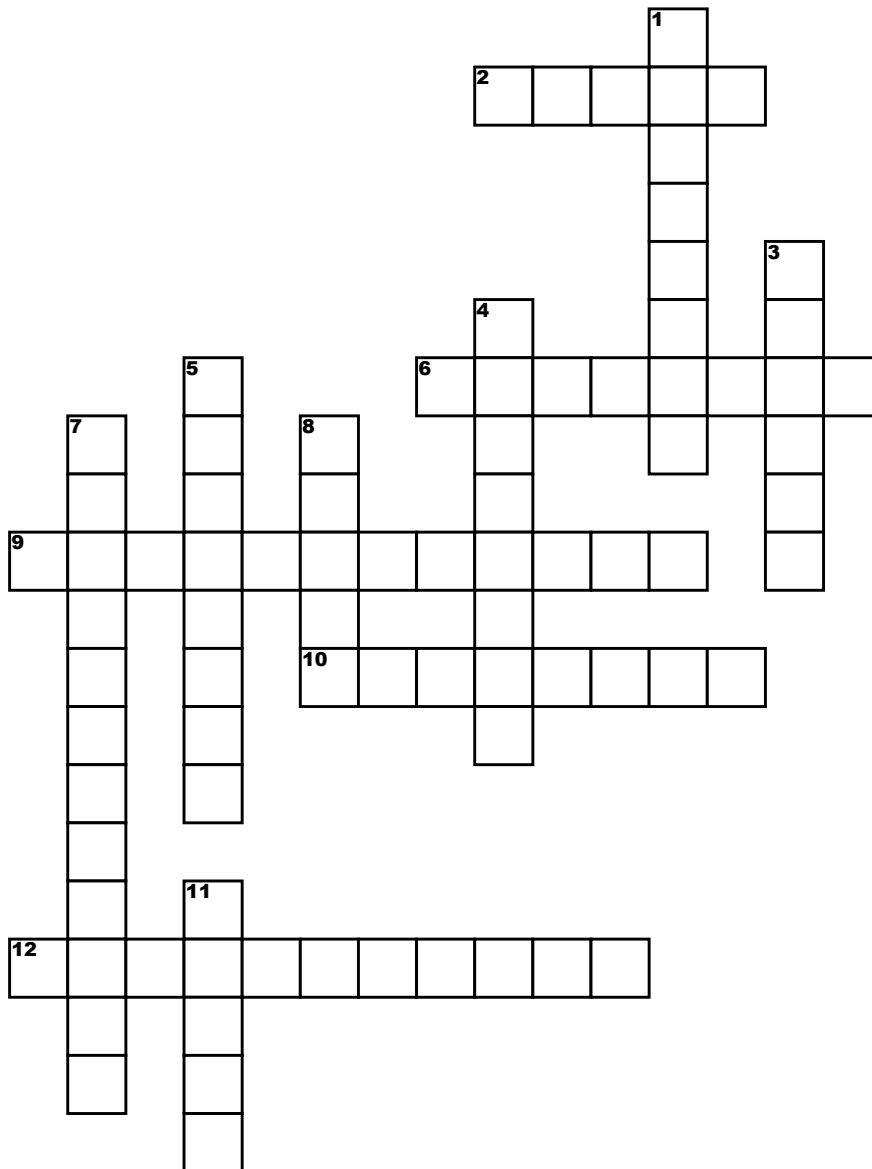# motion

Across

2. speed at which an object is moving at any given instant instantaneous

6. value that only has magnitude scalar

9. the rate at which velocity changes

10. length of between two points

12. distance and direction of an object's in position from a starting point

Down

1. speed and direction of an object's motion

3. -a change in position of an object over time

4. value that has both magnitude and direction vector

5. mass in motion; quantity of motion of a moving body

7. -acceleration toward the center a curved or circular path Centripetal

8. speed of motion when speed is changing average

11. distance an object has traveled per unit of time