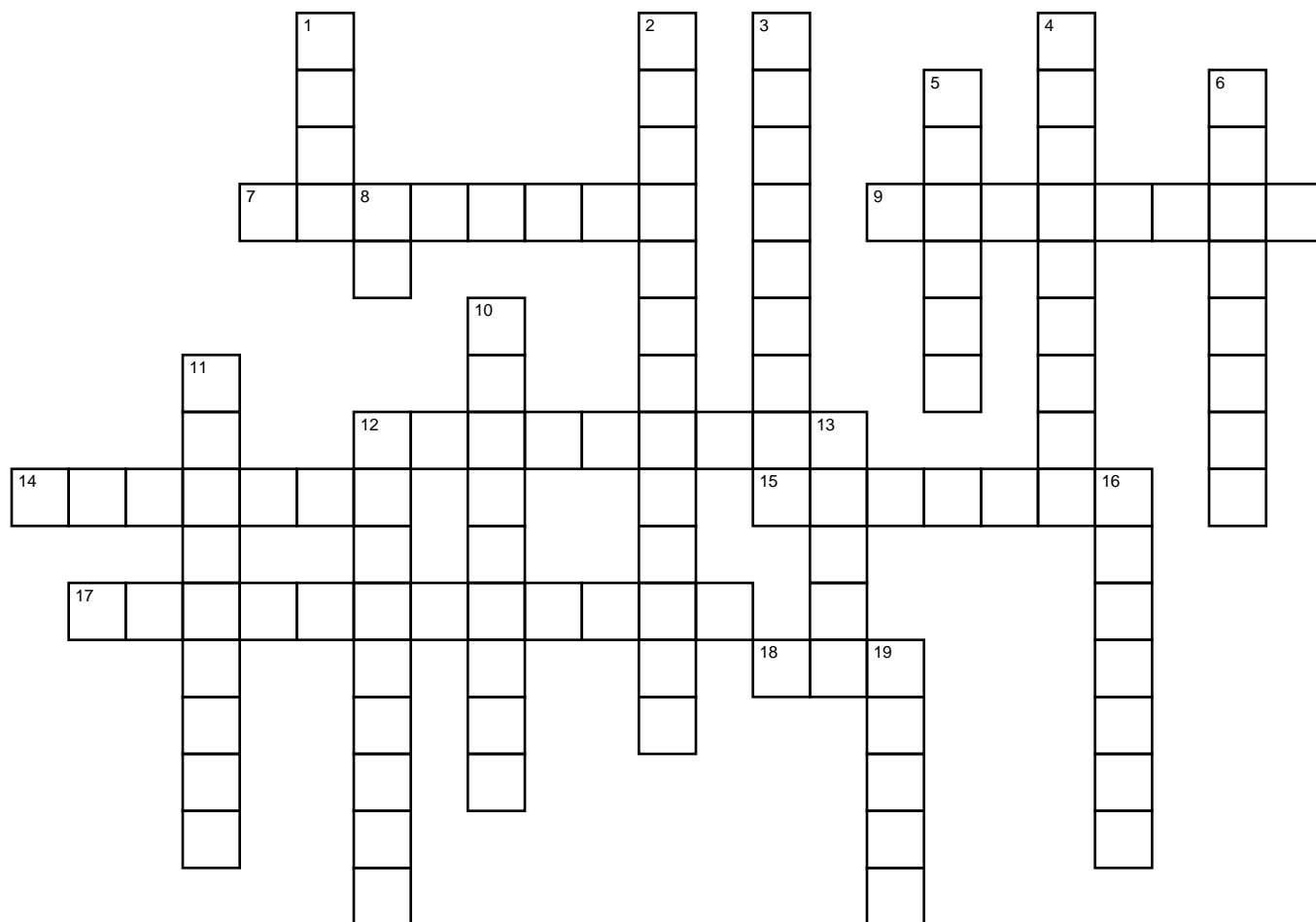


Chapter 4 Reading Guide: Motion

Physical Science: Energy

Name _____ Period _____



Across

7. speed that stays the same is ___ speed
9. if an object falls with only the force of gravity acting on it, it is in ___.
12. what happens to speed if acceleration is negative?
14. total distance divided by total time is ___ speed
15. acceleration can be ___ down.
17. rate at which velocity changes
18. does a car accelerate if it goes around a corner at constant speed?

Down

1. if an object is moving at constant speed is has an acceleration of ___.
2. speed of a moving object at any moment is ___ speed
3. graphs show relationships between ___
4. acceleration can be a change in ___.
5. acceleration on a position vs. time graph is a ___ line.
6. speed and direction
8. if an airplane travels in a straight line at constant speed, is it accelerating?
10. what happens to the speed of an object that is dropped in free fall?
11. the difference between speed and velocity is that velocity includes ___

Down

12. on a position vs. time graph, time is an independent variable and distance is a ___ variable
13. ratio of the rise over the run of a line on a graph
16. on Earth, the value of 9.8 m/s/s is called the acceleration due to ___.
19. how quickly an object moves, calculated by dividing distance travelled by the time it takes