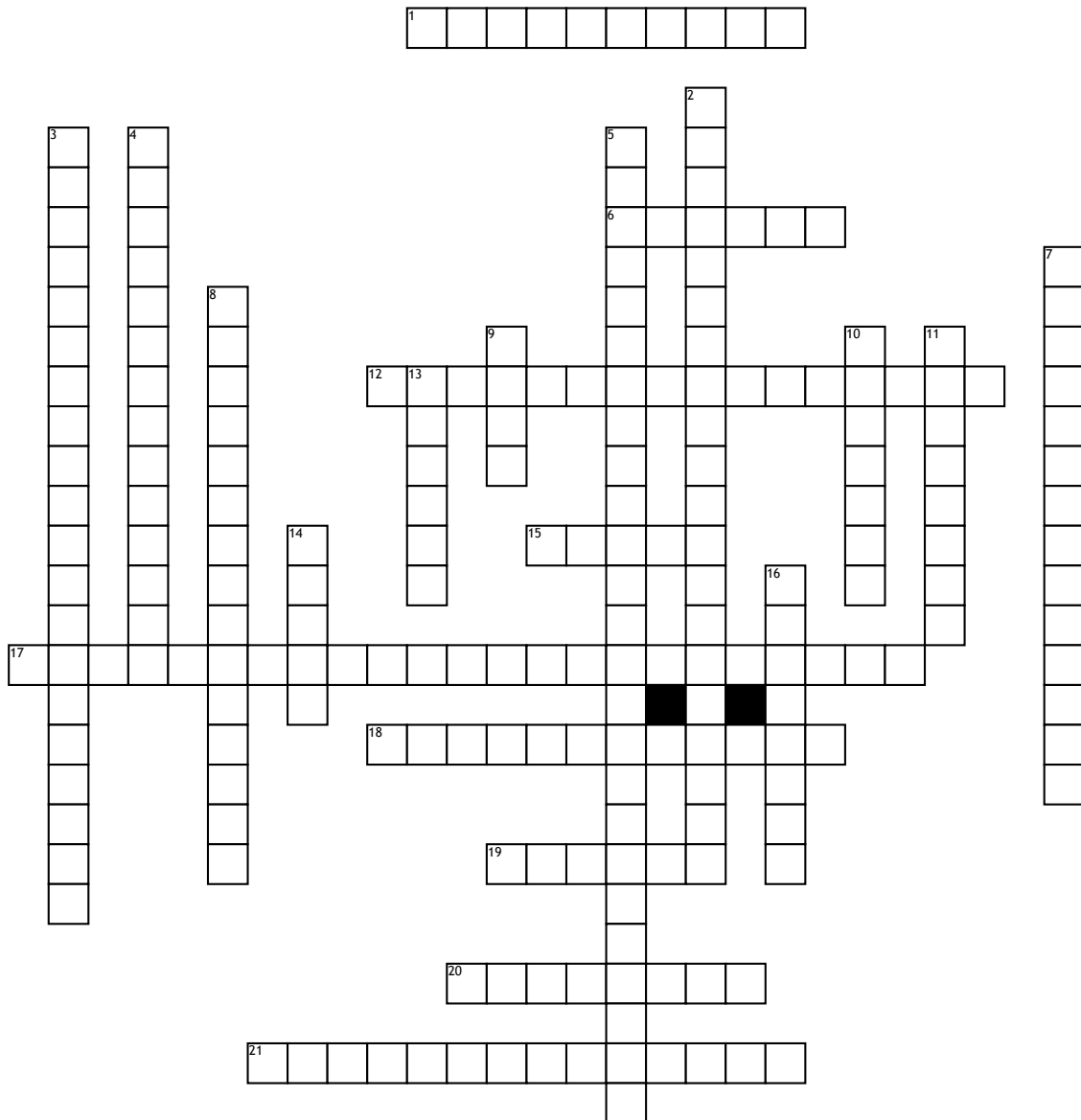


Chapter 5 Vocab



Across

- 1. Substances that are applied to surfaces to reduce the friction between surfaces
- 6. A measure of the gravitational force exerted on an object; its value can change with the location of the object in the universe
- 12. When the net force on an object is not 0 N
- 15. Simply a push or a pull exerted on an object in order to change the motion of the object; it has size and direction
- 17. The acceleration that occurs in a circular motion
- 18. The rate at which velocity changes over time; an object accelerates if its speed, direction or both change
- 19. An object's change in position relative to a reference point

20. A force that opposes motion between two surfaces that are in contact

21. When the forces of an object produce a net force of 0 N

Down

- 2. An increase in velocity
- 3. A decrease in velocity
- 4. The object that appears to stay in place
- 5. Describes the relationships between gravitational force, mass, and distance
- 7. The type of friction that occurs when you push on something and it does not move
- 8. The type of friction that occurs when you push on something and it moves

9. A measure of the amount of matter in an object; a fundamental property of an object that is not affected by the forces that act on the object, such as the gravitational force

10. A force of attraction between objects that is due to their masses and that decreases as the distance between the objects increases

11. The speed of an object in a particular direction

13. SI unit for force

14. The distance traveled divided by the time interval during which the motion occurred

16. A single force whose external effects on a rigid body are the same as the effects of several actual forces acting on the body