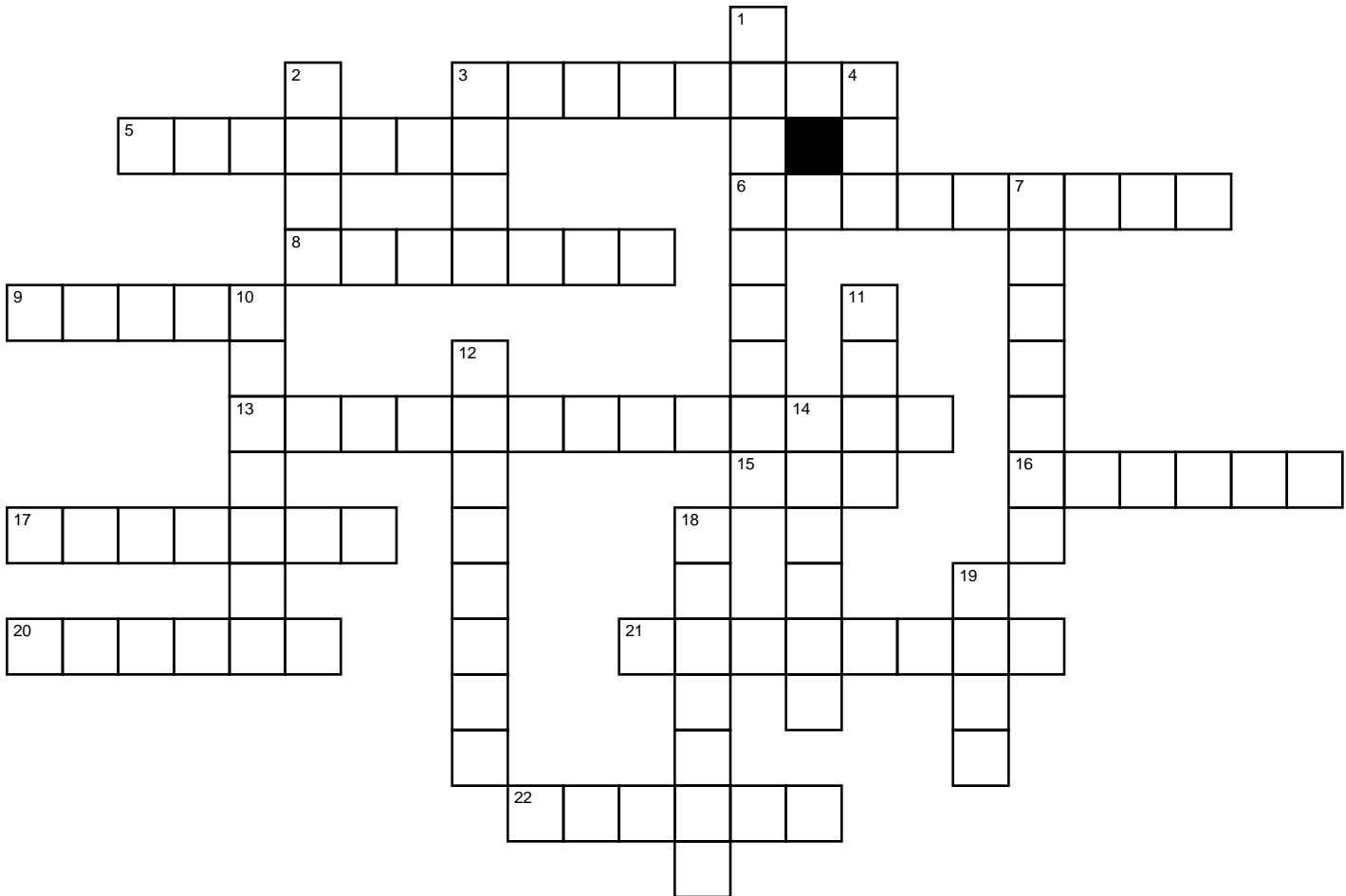


# Chapter 5: Force

Name \_\_\_\_\_ Per \_\_\_\_\_



## Across

3. a force that resists motion
5. the greater the force squeezing 2 surfaces together, the \_\_\_\_ the friction force
6. an \_\_\_\_ is a "stretch," or increase in size
8. a compression is a \_\_\_\_, or decrease in size
9. a push or a pull
13. the mass of the Earth creates a \_\_\_\_ field around the Earth
15. static friction is the friction force the resists motion between 2 surfaces that are \_\_\_\_ moving
16. the SI (metric) unit of force
17. a pulling force that acts on a rope, string or other object
20. \_\_\_\_ = mass (kg) x gravity strength (N/kg)
21. if combined forces that result in a zero net force on an object, the forces are \_\_\_\_
22. because it has direction, force is a \_\_\_\_

## Down

1. using positive or negative numbers when recording force measurements indicates the \_\_\_\_ of the force
2. gravitational force depends on \_\_\_\_
3. a diagram showing all the forces acting on an object is a \_\_\_\_ body diagram
4. the sum of all forces acting on an object is the \_\_\_\_ force
7. \_\_\_\_ friction is the friction force the resists the motion of an object moving over a surface
10. the pound is a unit of force used in the \_\_\_\_ system
11. friction changes the energy of motion into \_\_\_\_
12. one newton is the force it takes to change the speed of a 1 \_\_\_\_ object by 1 m/s in 1 second
14. perpendicular force that a surface exerts on an object that is pressing on it is the \_\_\_\_ force
18. weight is a force that depends on mass and \_\_\_\_

## Down

19. equilibrium is the state in which the net force on an object is \_\_\_\_