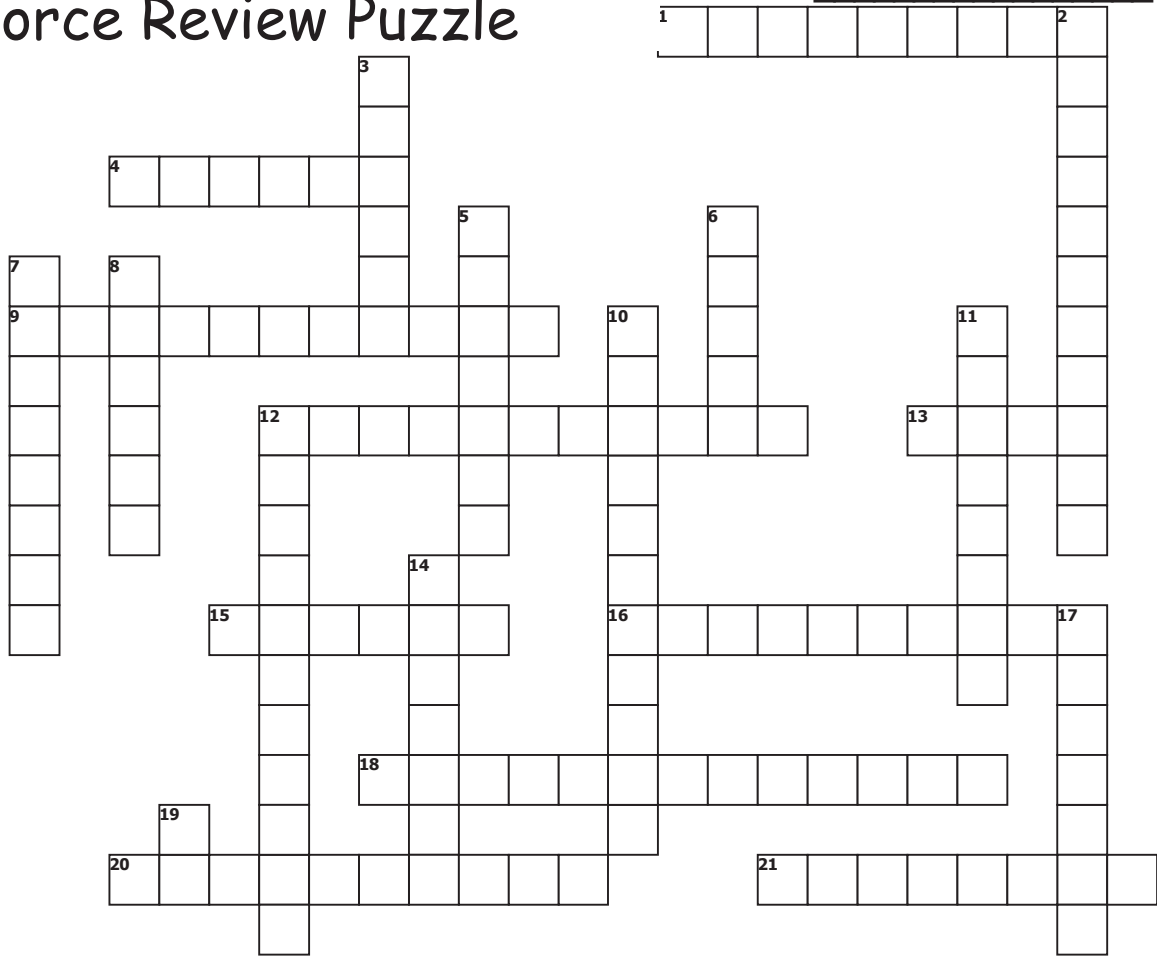# Force Review Puzzle

Name _____

ACROSS

1 represented by a length of a force vector

4 discovered that gravity is a universal force

9 a state in which the net force on an object equals zero

12 any force toward center of a circle

13 Friction does not depend on ____ of contact.

15 force exerted on object perpendicular to surface

16 forces acting on same point at same time

18 As theta increases, the _____ component of weight decreases.

20 finding components of a force

21 force that opposes motion

DOWN

2 force required to put an object into a state of equilibrium

3 The point at which all the weight of an object seems to act is _____ of gravity.

5 Force of gravity is inversely proportional to distance _____.

6 symbol for angle

7 affects centripetal force more than any other factor

8 machine changing the direction of forces

10 _____ of friction is ratio of friction force to normal force

11 component of weight that pulls object down an inclined plane

12 finding resultant of concurrent forces

14 trig function used to find theta from components

17 transfers force through ropes, chains, etc.

19 Direction of equilibrant force for resultant force N of W is ____ of ____.