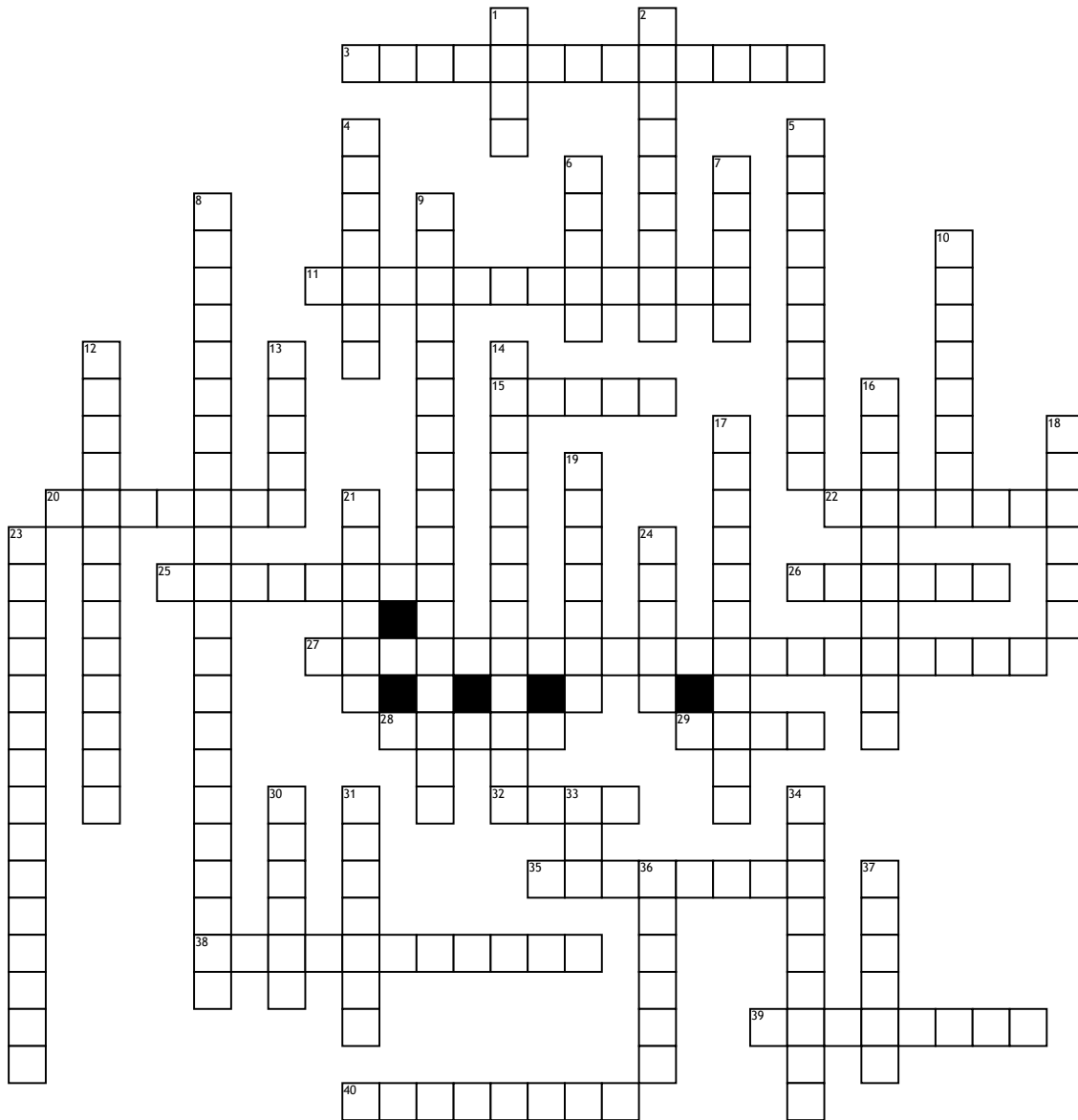


Name: _____

Date: _____

Fall Semester Physics



Across

3. Force is equal to mass times acceleration
 11. Depends upon starting position and end position, meters
 15. Who experiences the greater force when a tiger hits a mouse?
 20. What the scientist compares the result to
 22. Energy from motion
 25. Gravity only acts in the ____ direction.
 26. Gravitational Potential Energy depends on mass, gravity and ____.
 27. Energy cannot be created nor destroyed
 28. Unit of Energy/Work
 29. How much net force does it take keep a 1 kg ball rolling at 4 m/s?
 32. Unit of power
 35. Something that does not change in an experiment

38. All forces are in balance

39. What is the SI unit for mass?

40. 1st Step of the Scientific Method

Down

1. Force * displacement
 2. If mass remains constant and force is increased, what happens to acceleration?
 4. This is the only force that acts on a projectile
 5. An educated guess
 6. What is the SI unit for displacement?
 7. Where is acceleration due to gravity 9.8 m/s²
 8. What is the SI units for acceleration?
 9. Scientific Method Step where the test results are shared
 10. In kinematics what does the variable x represent
 12. An object at rest will remain at rest

13. The Earth exerts a force on the moon, the moon exerts a(n) _____ force back

14. For every action there is an equal and opposite reaction

16. Ratio of output to input

17. The variable the scientist changes

18. What is the SI unit for time?

19. Energy released when heavy atoms in matter are split

21. Has direction and magnitude

23. What is the SI units for velocity

24. Vertical direction of a graph

30. A twisting caused by forces

31. The greater the mass the _____ the acceleration.

33. How many directions does a projectile travel

34. Energy dependent upon position

36. Force applied an object

37. What are the units for force?