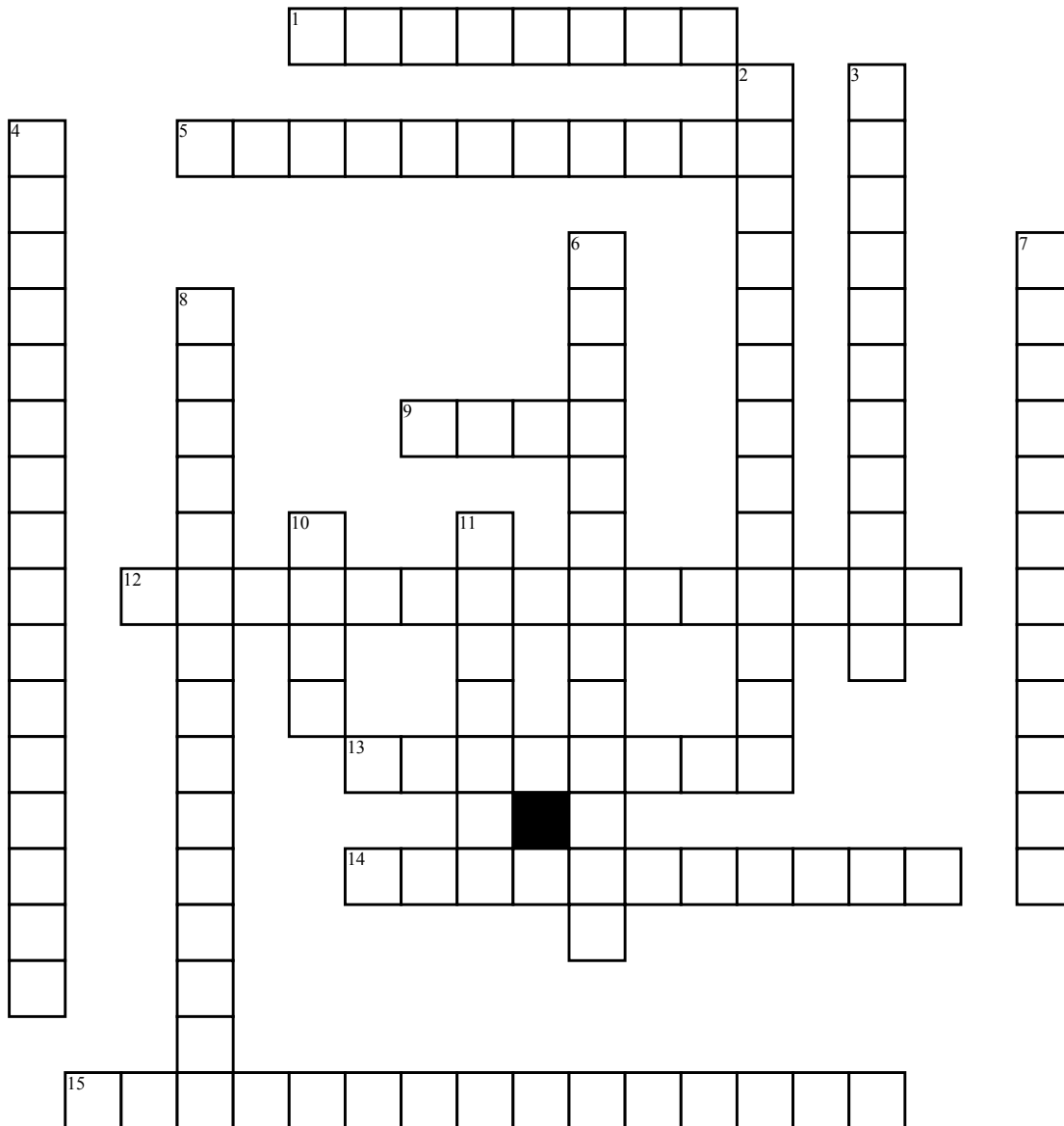


Name: _____

Date: _____

Period: _____

Newton's Laws Crossword



Across

1. The resistance that one surface or object encounters when moving over another

5. The support force exerted upon an object that is in contact with another stable object

9. The vector sum of the external forces F on an object is equal to the mass m of that object multiplied by the acceleration vector a of the object

12. Two individual forces are of equal magnitude and opposite direction, then the forces are said to be balanced

13. The overall force acting on an object

14. An English physicist and mathematician best known for his creation of the laws of motion

15. An object will remain at rest or in uniform motion in a straight line unless acted upon by an external force

Down

2. Force acting in the opposite direction

3. Force acting in one direction

4. The acceleration of an object is dependent upon two variables: the net force acting upon the object and the mass of the object

6. Two forces acting in opposite directions on an object, and equal in size

7. Increase in the rate or speed of something

8. In every interaction, there is a pair of forces acting on the two interacting objects

10. A coherent, typically large body of matter with no definite shape

11. A property of matter by which it continues in its existing state of rest or uniform motion in a straight line, unless that state is changed by an external force