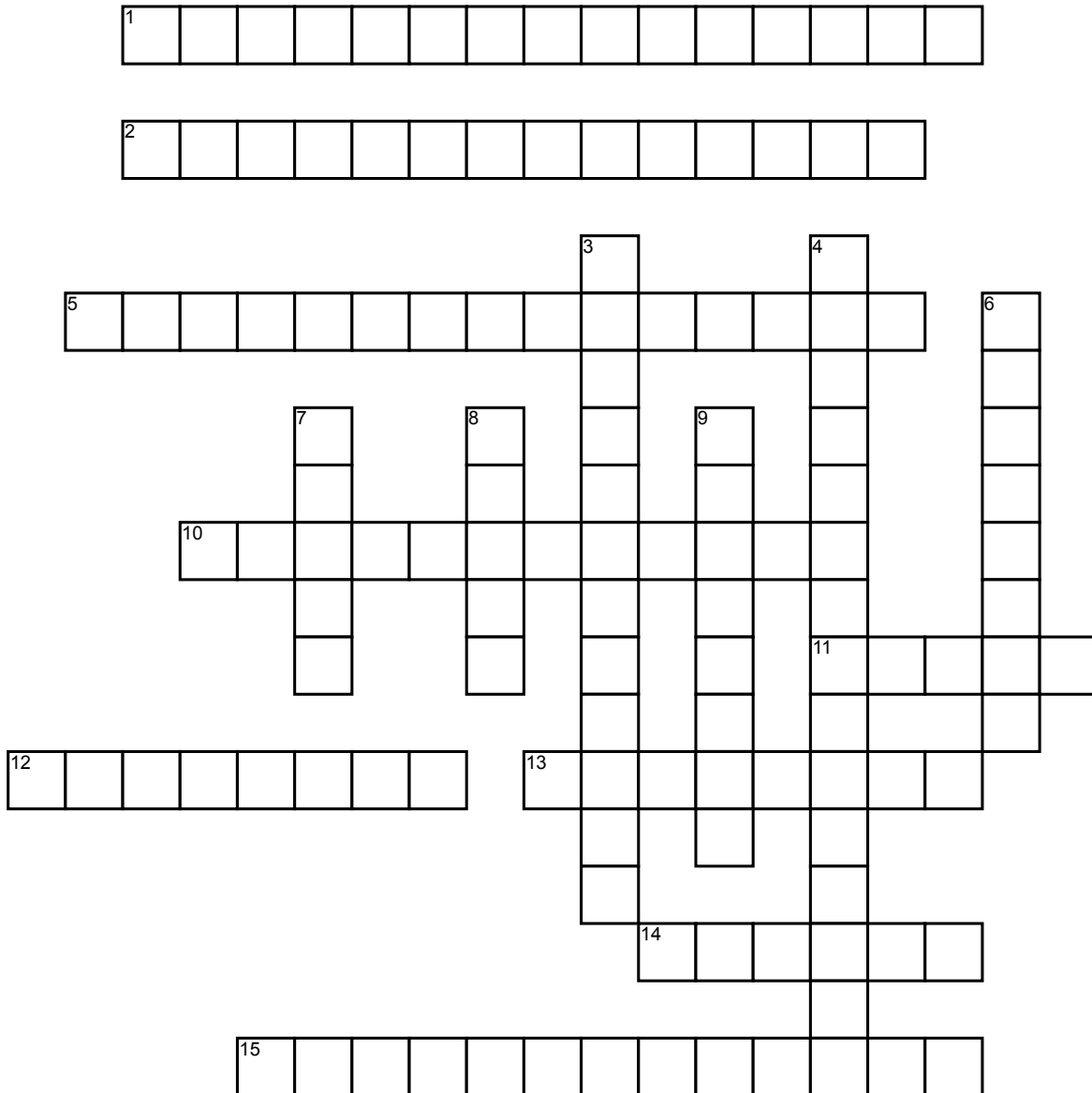


# 2nd Semester Project



**Across**

- 1. an object at rest will remain at rest and an object in motion maintains its velocity unless it experiences a net force
- 2. occurs between two objects that touch but do not move
- 5. occurs when a solid surface slides over another solid surface
- 10. any change in velocity
- 11. a push or pull

12. a quantity defined as the product of an object's mass and its velocity

13. the speed of an object plus the direction in which it is moving

14. changing position against a fixed point

15. occurs between the surface of a moving object and the air molecules

**Down**

3. the change in position of an object

4. occurs when an object rolls across a solid surface

6. the combination of all the forces acting on an object

7. the total amount of momentum in a system is conserved

8. how fast an object moves

9. an unbalanced force that opposes motion