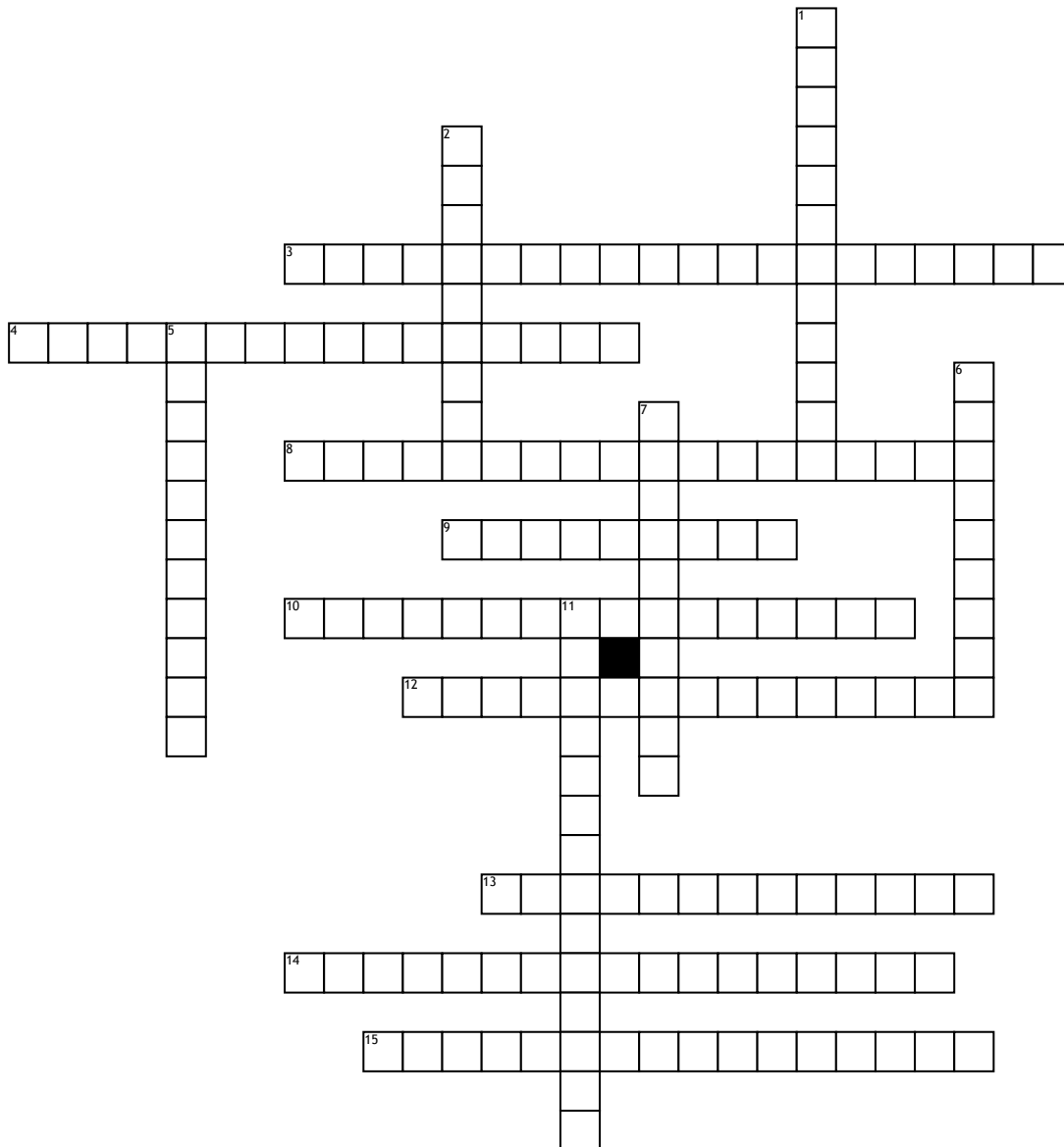


Name: _____

Date: _____

Simple Harmonic Motion



Across

3. motion of an object if its acceleration is proportional to the displacement of the object from equilibrium and is always directed toward equilibrium position.

4. vibrations of a system subjected to an external periodic force.

8. oscillations that reduce the amplitude due to the presence of resistive forces such as friction and drag

9. The number of revolutions per second.

10. a measure of the frequency of an object varying sinusoidally equal to 2π times the frequency in cycles per second

12. The amount by which one wave differs from another

13. A force that varies regularly in magnitude with a definite time period.

14. the frequency of an oscillating system in resonance

15. any curves with the shape of a sine wave.

Down

1. the change in position of an object

2. the maximum displacement or distance moved by a point on a vibrating body.

5. When all forces acting on an object are balanced and cancel each other out.

6. when one object vibrating at the same natural frequency of a second object forces that second object into vibrational motion.

7. The time taken for a complete revolution.

11. vibrations where there is no damping and no periodic force acting on the system.