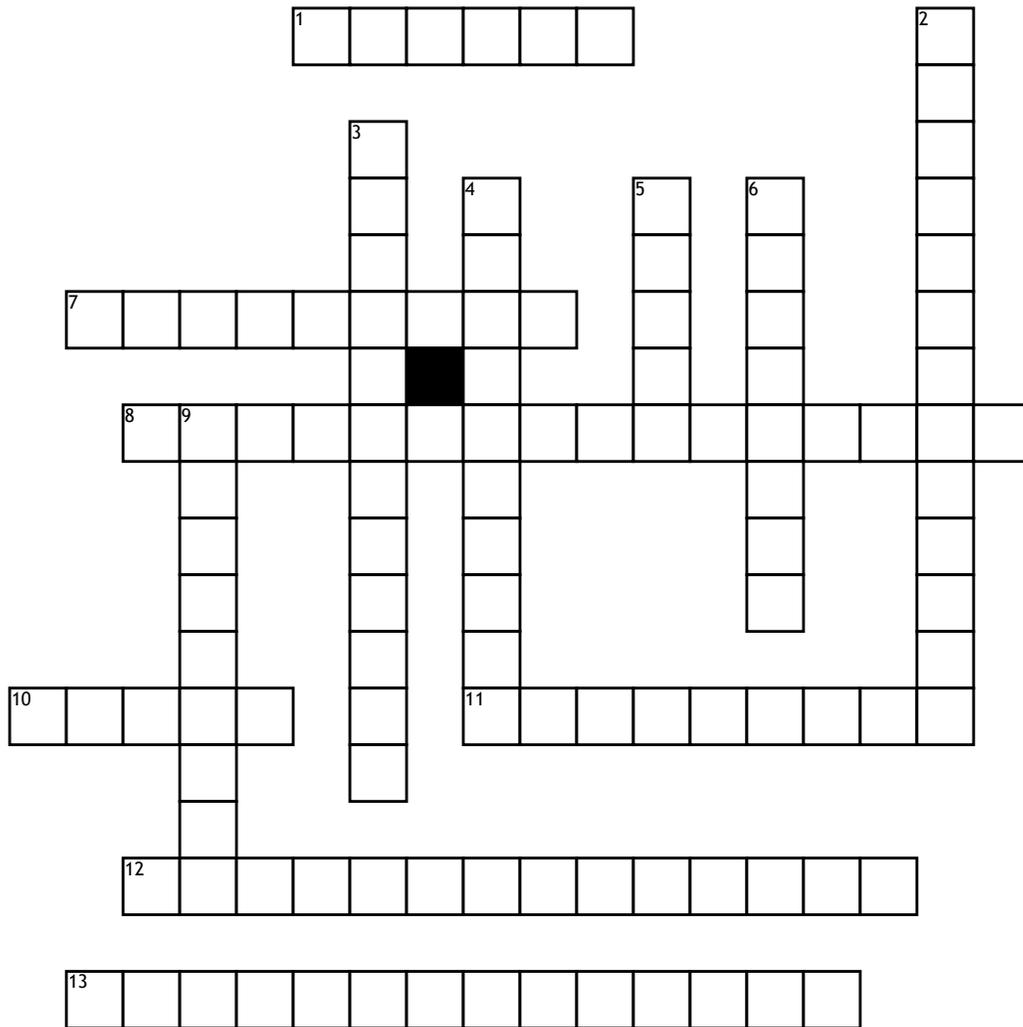


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Waves



### Across

- 1. the time it takes for each completed cycle
- 7. how often something repeats expressed in hertz
- 8. the frequency at which a system oscillates when disturbed
- 10. the unit of frequency

- 11. an exceptionally large amplitude that develops when a periodic force is applied at natural frequency
- 12. any force that always acts to pull a system back toward equilibrium

- 13. motion that repeats in cycles

### Down

- 2. a repetitive force

- 3. motion that goes from one place to another without repeating

- 4. a physical system that has repeating cycles

- 5. unit of motion that repeats

- 6. device that swings back and forth due to the force of gravity

- 9. the amount that a cycle moves away from equilibrium

### Word Bank

- |                   |                 |                 |               |
|-------------------|-----------------|-----------------|---------------|
| period            | pendulum        | oscillator      | hertz         |
| amplitude         | harmonic motion | restoring force | cycle         |
| resonance         | frequency       | periodic force  | linear motion |
| natural frequency |                 |                 |               |