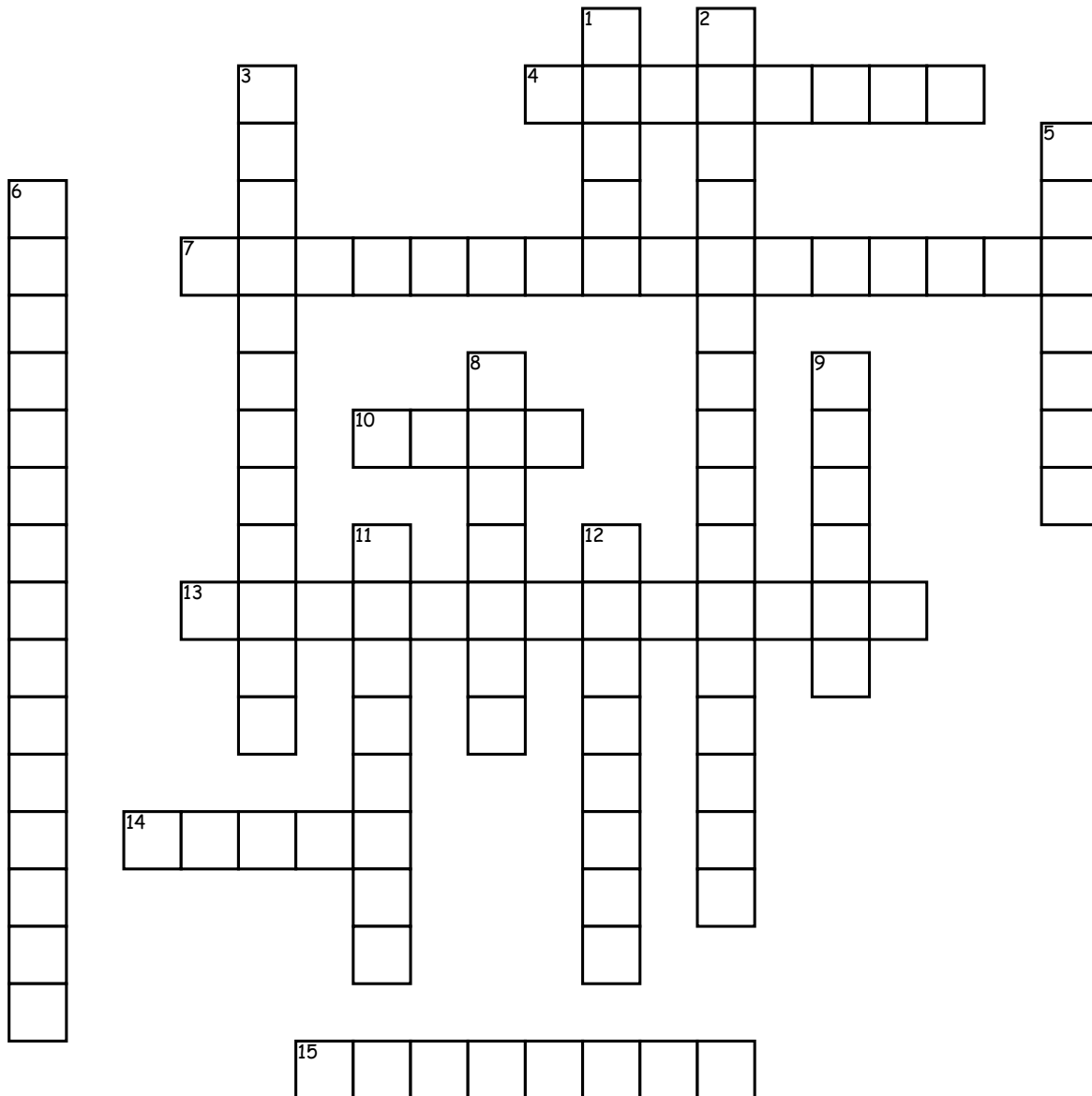


Energy and Forces



Across

4. an object in motion's tendency to keep traveling in the same direction at the same speed, equals mass*velocity
7. a force that causes an object to move in a circular pattern - "center seeking"
10. the transfer of energy
13. the energy of an object in motion
14. the rate at which work is done

15. force that two surfaces exert on each other when they rub against each other

Down

1. unit of measure for energy, one of these is equal to 1 kg·m²/s²
2. combination of an object's potential energy and its kinetic energy
3. the rate at which velocity changes-- increasing speed, decreasing speed, changing direction

5. resistance to change in motion
6. the energy of an object not in motion
8. a force that pulls objects towards each other
9. the ability to do work or cause change
11. the combination of all forces acting on an object
12. speed and direction of an object