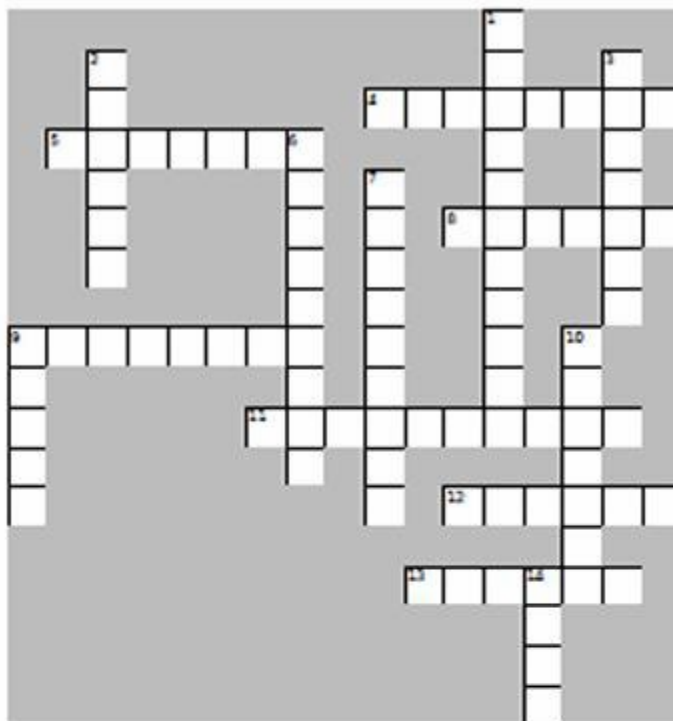


## Module 2: Forces and Newton's Laws

### Topic 5 Warm-Up: Crossword Puzzle

Solve this puzzle using the glossary and key vocabulary from Module 2.



- Across**
- 4 When the net force is zero.
  - 5 When objects are in motion with respect to each other
  - 8 When objects are at rest with respect to each other
  - 9 A contact force that opposes sliding motion and acts parallel to the surface.
  - 11 When the net force is not zero
  - 12 The unit of force that would accelerate one kilogram at a rate of one meter per second squared.
  - 13 A contact force that responds when two objects are pushed together. Always acts perpendicular to the surface.

- Down**
- 1 An action-at-a-distance force that acts to attract any two objects with mass
  - 2 The force of gravity on an object
  - 3 The type of force present in a taut rope, cable or chain.
  - 6 That portion of a vector quantity that contributes in the vertical or horizontal direction only.
  - 7 The single vector obtained when adding two or more vectors by vector addition.
  - 9 Any of several classes of interaction that may cause an object to change its motion.
  - 10 The property of matter that resists changes in motion. Directly related to mass.
  - 14 The amount of matter in an object