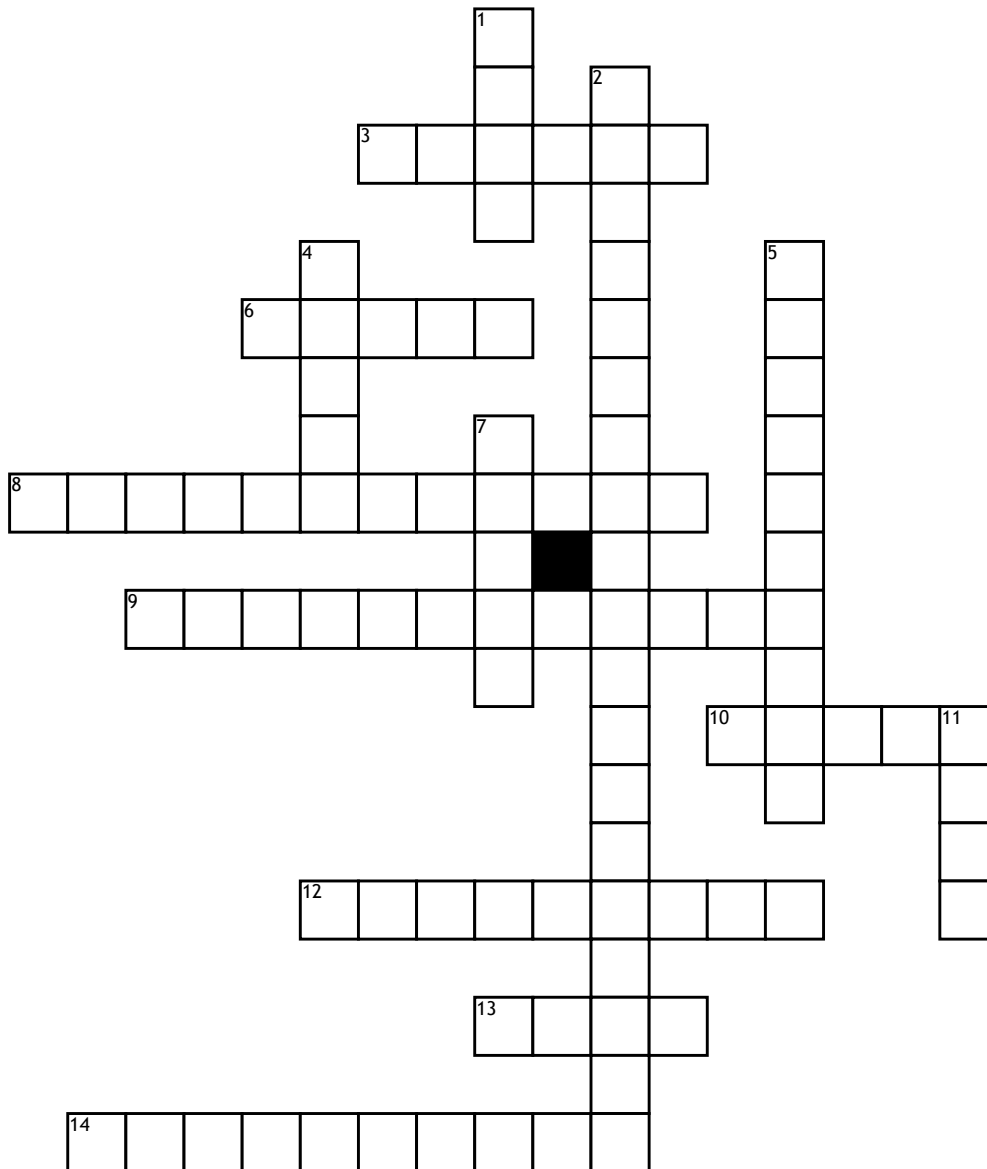


simple machines



Across

- 3. a wheel with a grooved rim around which a cord passes. It acts to change the direction of a force applied to the cord and is chiefly used (typically in combination) to raise heavy weights.
- 6. a rigid bar resting on a pivot, used to help move a heavy or firmly fixed load with one end when pressure is applied to the other
- 8. An applied force is an interaction of one object on another that causes the second object to accelerate or change velocity or direction
- 9. a plane inclined at an angle to the horizontal.

- 10. a short, slender, sharp-pointed metal pin with a raised helical thread running around it and a slotted head, used to join things together by being rotated so that it pierces wood or other material and is held tightly in place.
- 12. a system of parts working together in a machine; a piece of machinery
- 13. one of a set of toothed wheels that work together to alter the relation between the speed of a driving mechanism
- 14. Input Force represents the amount of force that you put into another object

Down

- 1. a rod or spindle (either fixed or rotating) passing through the center of a wheel or group of wheels:

- 2. the ratio of the force produced by a machine to the force applied to it, used in assessing the performance of a machine.
- 4. a piece of wood, metal, or some other material having one thick end and tapering to a thin edge, that is driven between two objects or parts of an object to secure or separate them.
- 5. the state or quality of being efficient
- 7. the ability to do something or act in a particular way, especially as a faculty or quality
- 11. activity involving mental or physical effort done in order to achieve a purpose or result: