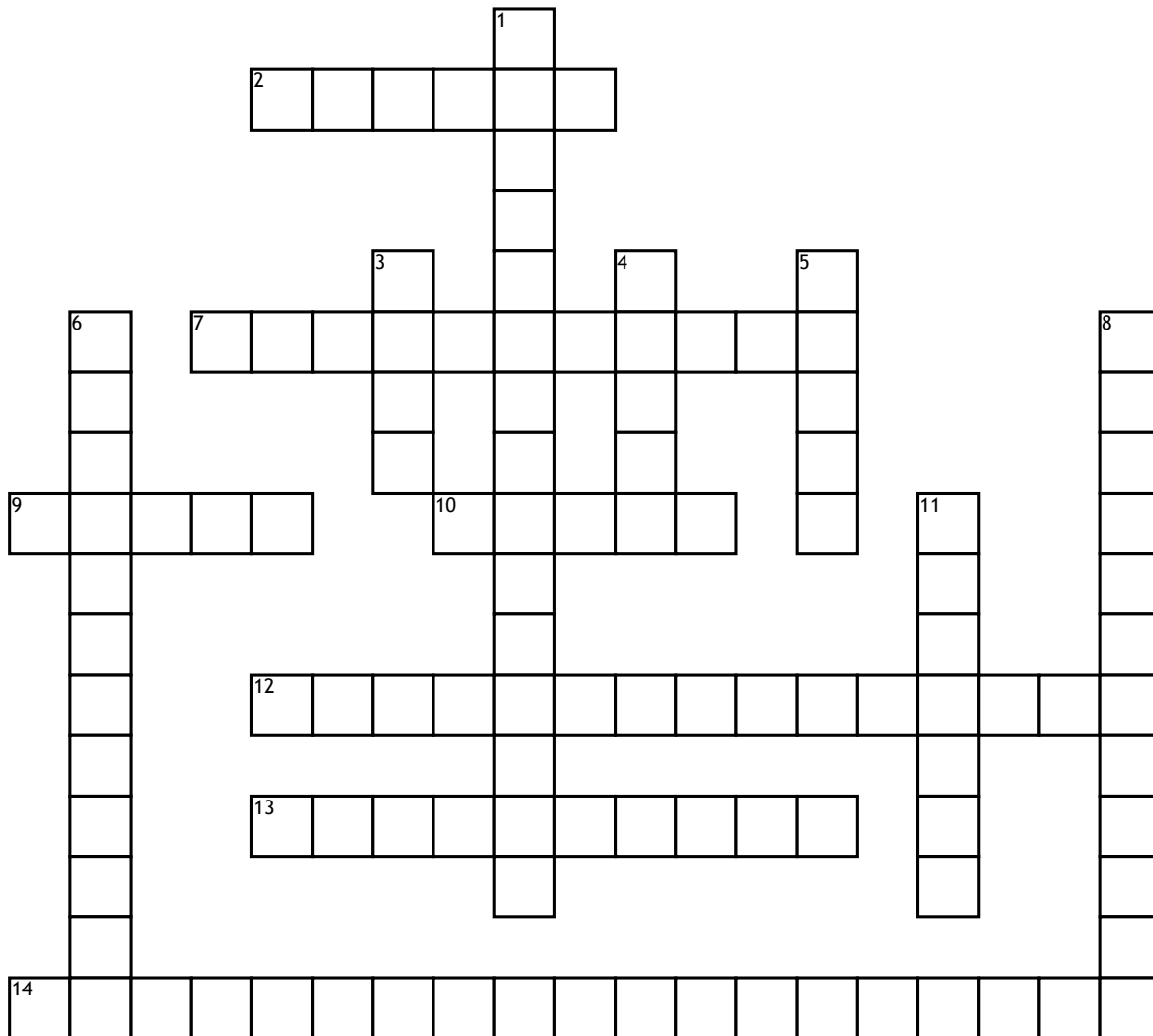


# simple machinery



## Across

2. A wheel with a grooved rim around which a cord passes  
 7. The force required by a machine in order to accomplish work  
 9. A piece of wood, metal, or some other material having one thick end and tapering to a thin edge  
 10. A short, slender, sharp-pointed metal pin with a raised helical thread running around it and a slotted head

12. A machine that consists of more than one simple machine  
 13. The state or quality of being efficient  
 14. The ratio of the force produced by a machine to the force applied to it

## Down

1. The force which an effort force must overcome in order to do work on an object via a simple machine  
 3. Denoting things or parts made of a specified material or with specified tools

4. physical power or strength humans create  
 5. A handle  
 6. A simple lifting machine consisting of a rope that unwinds from a wheel onto a cylindrical drum or shaft joined to the wheel to provide mechanical advantage  
 8. A flat supporting surface tilted at an angle, with one end higher than the other  
 11. An apparatus using or applying mechanical power and having several parts