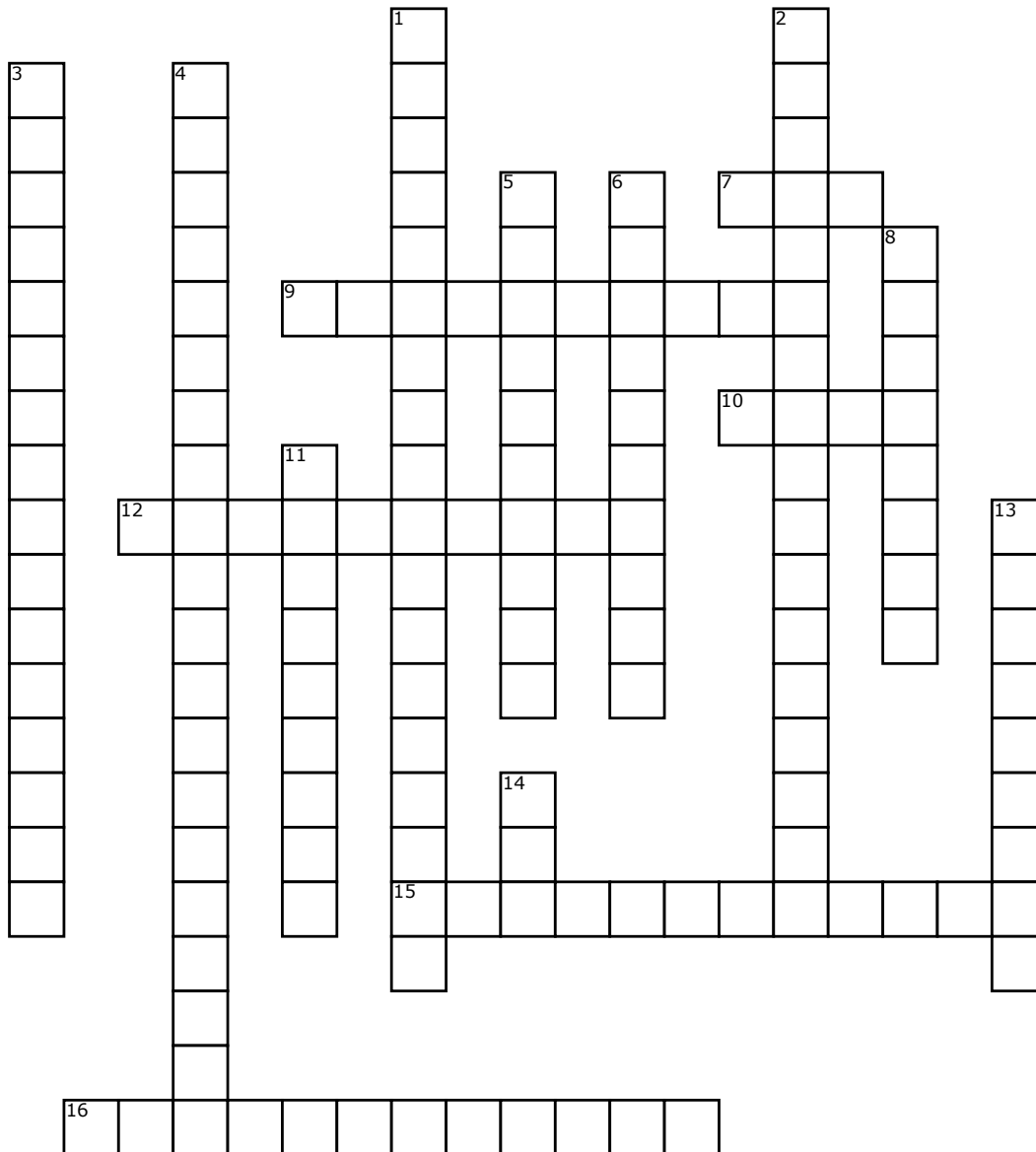


# manufacturing tech



## **Across**

- 7.** Automated Guided Vehicles  
Mobile robot that follows markers or wires in the floor, or uses vision, magnets, or lasers for navigation
- 9.** A mechanical device that functions automatically without continuous input from an operator
- 10.** Occupational Safety and Health Administration. US government agency that ensures safe and healthful working conditions for all people.
- 12.** Improvement or modification of an idea
- 15.** Hot wire on a foam cutter that could burn you
- 16.** A series of workers and machines in a factory by which a succession of identical items is progressively assembled.

## **Down**

- 1.** Stay 3 feet or arm's length away from machines in use. Only operator and instructor are allowed in this zone.
- 2.** Keep fingers 6 inches from moving blades
- 3.** Manufacturing process in which material is fed into a heated barrel, mixed, and forced into a mold, where it cools and hardens to the shape of the mold
- 4.** Components that are identical so that they will fit into any assembly of the same type. Quality
- 5.** When you combine materials together to form a new structure with properties that differ from its individual components. Usually consists of a matrix and a reinforcement. Ex. Carbon fiber composite

- 6.** A process whose limited capacity reduces the capacity of the whole manufacturing process
- 8.** Objects made from clay (or other natural raw materials) hardened by heat. Classified as inorganic and nonmetallic. Ex. tile, brick, glass
- 11.** Intangible personality traits that help you keep a job Ex. Responsibility, communication skills
- 13.** Plastics with a chemical structure that prevent it from remelting back into a liquid. Ex. Polyurethanes (insulating foams, mattresses, car parts, shoe soles)
- 14.** Computer Numerical Control Use of computers to control machines