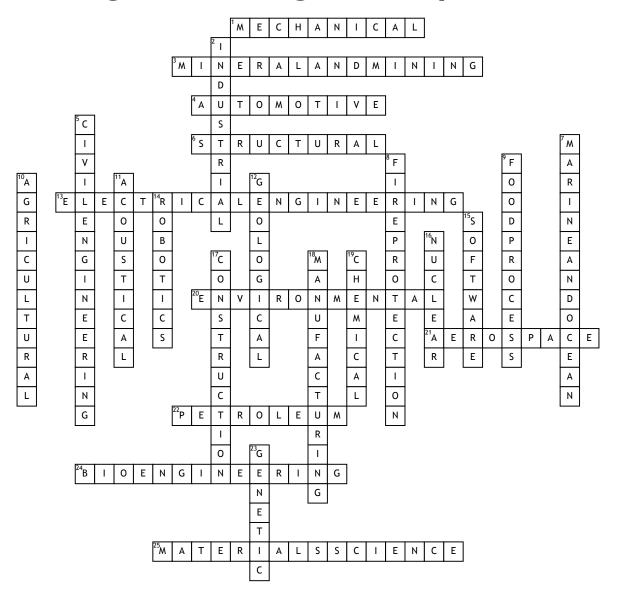
Name:	Date:

## **Engineering Disciplines**



## Across

- 1. Design, produce, operate, and service machines and mechanical devices
- 3. Maintain the flow of raw materials by discovering, extracting, and processing minerals for products
- $\bf 4. \ Plan, \ coordinate, \ and \ implement the specifications for a new car, engineering every part$
- **6.** Create safer structures and fit more people and objects per square inch into these structures
- 13. Responsible for the design, development, testing, and supervision of the manufacturing of electrical equipment, such as household appliances or guidance systems for satellites
- **20.** Apply engineering principles in order to improve and maintain the environment
- **21.** Design, develop, test, and help manufacture aircraft, missiles, and spacecraft
- **22.** Concerned with maintaining the safe flow of petroleum, exploring for crude oil deposits, removing and transporting oil, and refining oil
- **24.** The application of engineering principles to biological systems

**25.** Develop new materials, improve traditional materials, and produce materials that are economical and reliable through synthesis and processing

## Down

- **2.** Design, improve, and install integrated systems of people, materials, and energy
- **5.** Designing and supervising the construction of roads, buildings, airports, tunnels, bridges, and water and sewage systems
- 7. Concerned with the exploration of oceans, the transportation of products over water, and the utilization of resources in the world's oceans, lakes, and seas
- **8.** Responsible for the design, development, testing, and supervision of the manufacturing of electrical equipment, such as household appliances or guidance systems for satellites
- **9.** Concerned with providing healthier products to consumers, who increasingly rely on food products
- **10.** Concerned with the production and processing of agricultural products, which are critical to our ability to feed the ever-expanding world population

- **11.** Plan, perfect, or improve the sound of an architectural space
- 12. Use science to work with land and water
- 14. Concerned with programming robots and systems to perform tasks autonomously
- **15.** Responsible for the coding of computer software that results in a simple and friendly environment for computer users
- **16.** Study nuclear energy, radiation, and their beneficial uses
- **17.** Concerned with the management and operation of construction projects
- **18.** Applies science and math to the design, development, and implementation of manufacturing systems
- **19.** Take what chemists do in a laboratory, apply fundamental engineering, chemistry, and physics principles, and design and develop processes to produce products for use in our society
- **23.** Use science to research genes found in the cells of plants and animals to develop better products