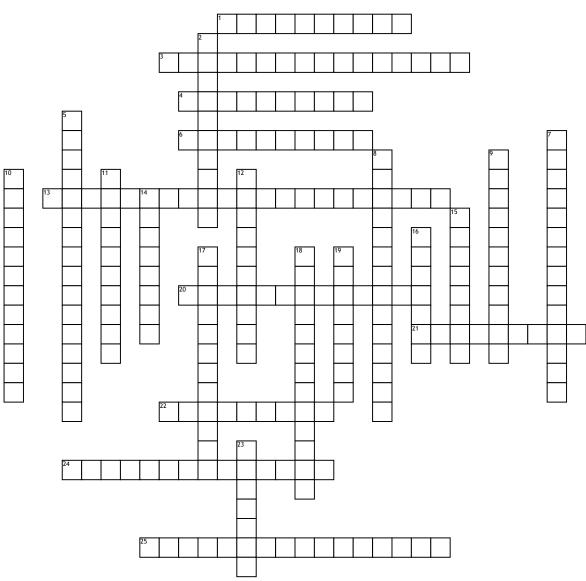
Engineering Disciplines



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

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