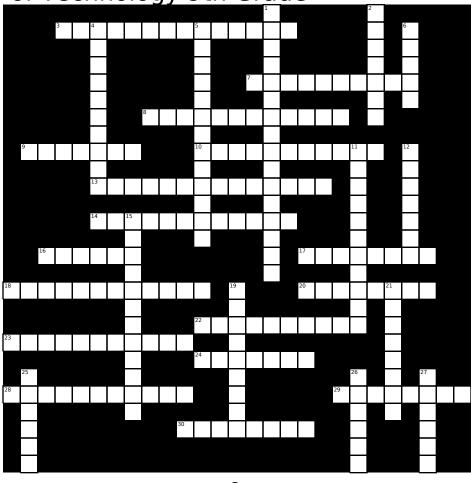
Unit 3 Engineering Design

Foundations of Technology 9th Grade



Across

- Design problems are seldom presented in what form? when a product does not function as it did when it was new obsolescence
- when an object, service or practice is no longer wanted even though it may still be in good working order A word refering to tolerances / Products should have a certain level of this
- The term for the process of making a product "What will it take to maintain the product?"
- Computers have greatly improved the power and use of mathematical models by performing that that are very long, very complicated, or repetitive
- Design is driven by motive and market
- the systematic application of matematical, scientific, and technical principals, that produces tangible end products that meet our needs and desires
- technological improvements are not introduced to a product, even though they could be
- Many years of formal post secondary education and is certified in a particular discipline
- 4 Characteristics Involved in Engineering "Think ?"
- 7 Resources used to create technology: machines & tools,
- people, energy, time, materials, capital the planned or calculated wearing down or breaking of a product so a new purchase will be required obsolescence
- The term for taking care of or repairing a product Design is the result of goal-oriented _____
- a system used by the Romans to bring water into the city from a spring that is far from the city

Down

- The ability to use what is available to solve a problem or develop a solution
- Designs must be continually checked, ___ improved.
- the science of designing jobs, equipment, and workplaces to fit workers
- What is the term for a type of conern is when a product may harm a natural ecosystem?
- when a product is no longer desirable because it has gone out of the popular fashion, its style is obsolete
- obsolescence Term for: how long is the product expected to last / how long
- should a product last Design requirements sometimes
- 15 modeling is to find a mathematical relationship that behaves in the same ways as the objects or processes under investigation
- The ability to see things in you mind
- No formal engineering education but still is capable of
- producing products to meet needs and desires What is a term for a type of convern when a product may case harm to the user?
- is the result of a formal, sequential process.
- a water delievery structure used by the ancient Romans / it resembles a bridge