



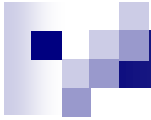
Introduction to Technology

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What is Technology?

- What comes to mind when you think or hear the term “technology”?
- What is this term associated with?
- What is your definition of technology?



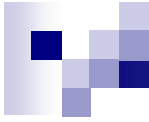
Technology

- Technology is cumulative sum of human developed in response to society's needs or desires to systematically solve problems
- Technology is combining knowledge with available resources to extend human capabilities. When combined with work, problems are solved; as a result societies are benefited.
- Technology is anything that is used to create products or processes.
- Technology is the application of math and science principles through the study of the man-made world.
- Technology is human innovation in action.



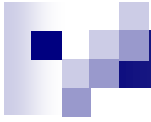
Technology Literacy

- The ability to use, manage and understand technology.
- To understand how technology and society influence one another and to use this knowledge in everyday decision making.



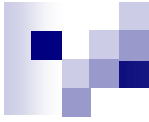
Technological Fix

- Fixes the symptoms but not the cause of the problem. Fixes allow people to avoid the effort of changing. example:
 - Catalytic Converters
 - Makes less emissions in air, but did not stop pollution from emissions.
 - Tylenol
 - Used to treat a headaches, but does not solve the problem of having it in the first place



System

- A system is **two** or more physical components and a set of procedures by means of which they interact.
- The basic components of a technology “system” includes artifacts, human skills, organizational patterns, and how it fits together.

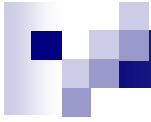


Systems - Five Components

- **Inputs**-The resources used by the system.
- **Processes**-The actions taken to use the inputs.
- **Outputs**-The result of the system.
- **Feedback**-Adjustments made to the processes to improve the outputs.
- **Goals**-The reason for the system.

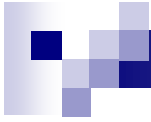
Technology Systems in Society

- Communication Systems
- Construction Systems
- Manufacturing Systems
- Transportation Systems



Luddites

- One who distrusts or fears the changes brought about by new technology.
- Today's Luddites continue to raise moral and ethical arguments against the excess of modern technology.



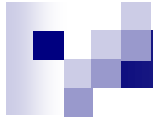
Sustainable Technology

- Technology that provides for our current needs without sacrificing the ability of future populations to sustain themselves.
 - Example: Biodegradable textiles



Green Technology

- Technology that offers a more environmentally friendly solution compared to an existing solution.
 - Example: Grass Roofs



Biotechnology

- “Applied Biology”, the application of biological knowledge and techniques to develop products.