~MEETING TECHNOLOGY~

Unit 1 Lesson 2

No matter who we are or where we are,
technology transforms the way we exist.
When people develop technology,
they must think about
the impacts it might have on society.

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BIG IDEA . . .

Technology is most useful when each facet of its creative design is carefully considered such as its inputs, process, output and feedback.

Think about it . . .

Now write the BIG IDEA of this lesson in your own words.
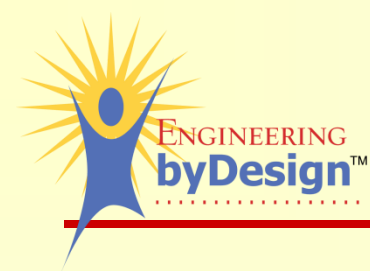
Words You Need to Know

System

A set of related parts - Together, they form a whole, designed to accomplish some purpose

Input

Something put into a system, such as resources, in order to achieve a result.

Process

➔ The study of the natural world through observation, identification, description, experimental investigation, and theoretical explanations

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Output

☐ The results of the operation of any system.

Feedback:

☐ Using all or a portion of the information from the output of a system to regulate or control the inputs or processes or in order to modify the output.

Words to Know

Impact
- ➔ The effect or influence of one thing on another. Some impacts are anticipated, and others are unanticipated.
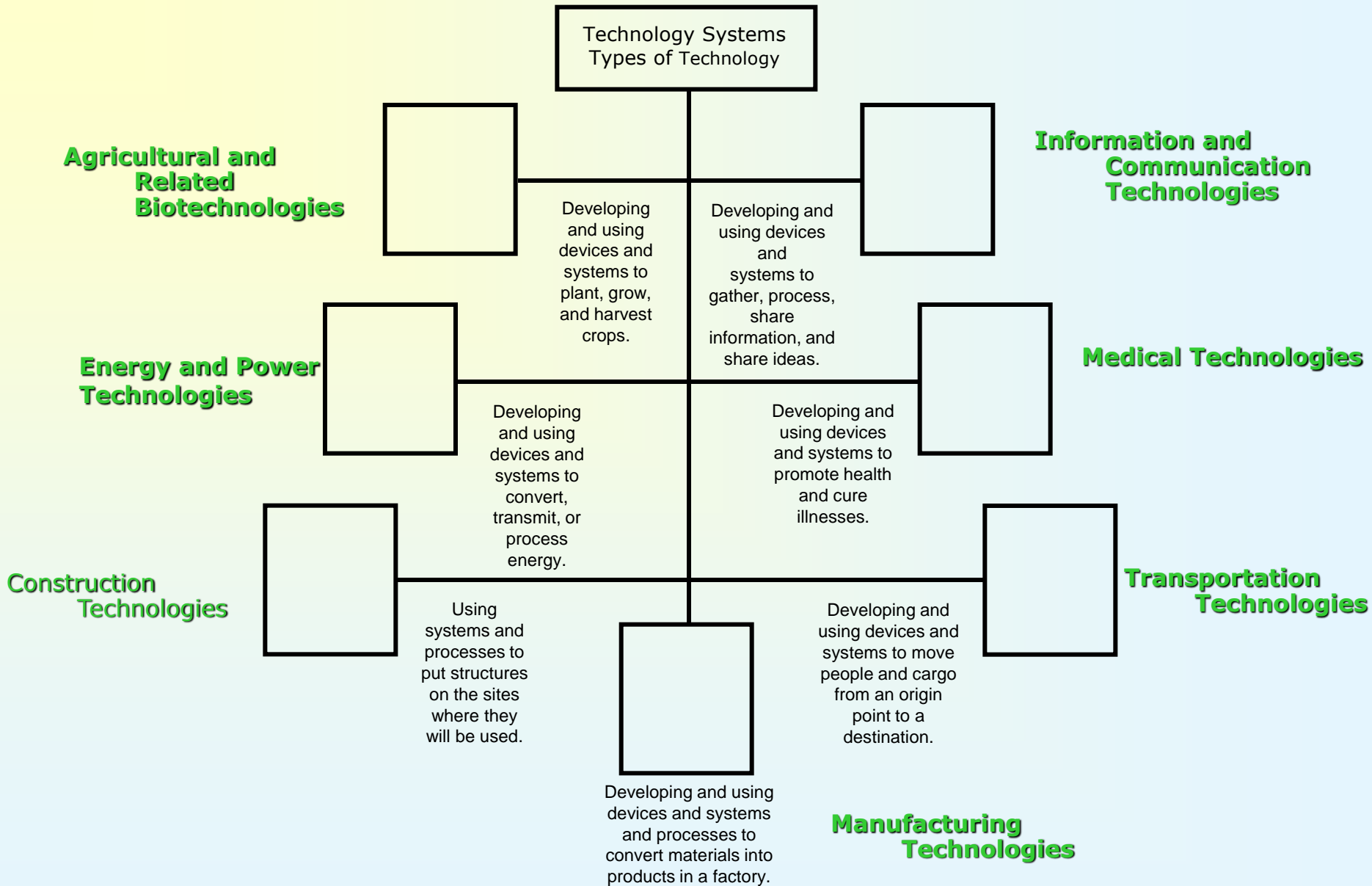- ➔ Examples

Society
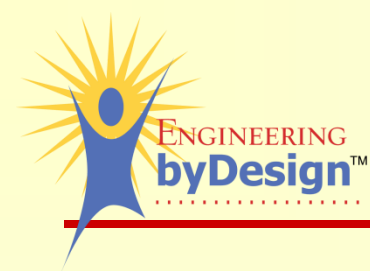- ➔ Relationships among groups of humans
- ➔ Examples

Systems thinking requires considering how each part connects to the others

Technology Systems
Types of Technology

Agricultural and Related Biotechnologies

Developing and using devices and systems to plant, grow, and harvest crops.

Information and Communication Technologies

Developing and using devices and systems to gather, process, share information, and share ideas.

Energy and Power Technologies

Developing and using devices and systems to convert, transmit, or process energy.

Medical Technologies

Developing and using devices and systems to promote health and cure illnesses.

Construction Technologies

Using systems and processes to put structures on the sites where they will be used.

Transportation Technologies

Developing and using devices and systems to move people and cargo from an origin point to a destination.

Developing and using devices and systems and processes to convert materials into products in a factory.

Manufacturing Technologies

Different But Still a Family - Technology Systems
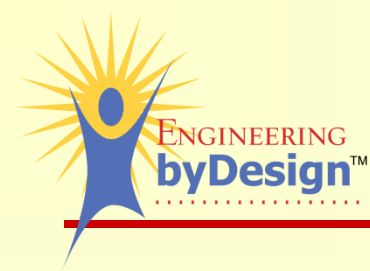
Introducing Technology

TECHNOLOGY solves problems that could not have solved without it.

- not just electronics
- developed out of a want or need
- creative
- constantly changing
- often done in teams
- often an improvement on pre-existing designs
- impact can be intended or unintended
- ENGINEERS take project ideas developed by technology and design and produce solutions to be used

Discuss a product that WOULD NOT exist without the use of a new technology and the impact it may have had.

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Introducing Technology

SCIENCE contributes to the development of technology.

MATHEMATICS makes sure technology is developed with precision and accuracy.

HISTORY lets us know what technologies have or have not worked as well as the impacts it has had

Think of a technology that could not have been developed without science mathematics, and history. <u>How</u> have science, mathematics, and history contributed to it's development or improvement.