

Curriculum Unit
Title

Innovation and Invention: Its Impact on Health Care

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KEY LEARNING, ENDURING UNDERSTANDING, ETC.

Biomedical engineering is the field of health care responsible for developing and evaluating medical devices.

The origin of many medical devices date back through the centuries.

There is always the need for constant improvement to ensure the effectiveness and efficiency of medical devices.

ESSENTIAL QUESTION(S) for the UNIT

In what ways have medical devices influenced health care?

CONCEPT A

Biomedical Engineering

CONCEPT B

The Origin of Medical Devices

CONCEPT C

The Process of Design

ESSENTIAL QUESTIONS A

What is the relationship between biomedical engineering and health care?

ESSENTIAL QUESTIONS B

What can we learn from the evolution of medical technology?

ESSENTIAL QUESTIONS C

What strategies can be used in the development of a medical device?

VOCABULARY A

- Biomedical engineering
- Obsidian prosthetic
- Amputate trephine

VOCABULARY B

- Stethoscope X-ray
- Thermometer
- Hypodermic syringe

VOCABULARY C

- Five-step process
- design

ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES

Textbook: Health Care Science Technology
Various video clips
HOSA competitive event guidelines