

Science and Technology

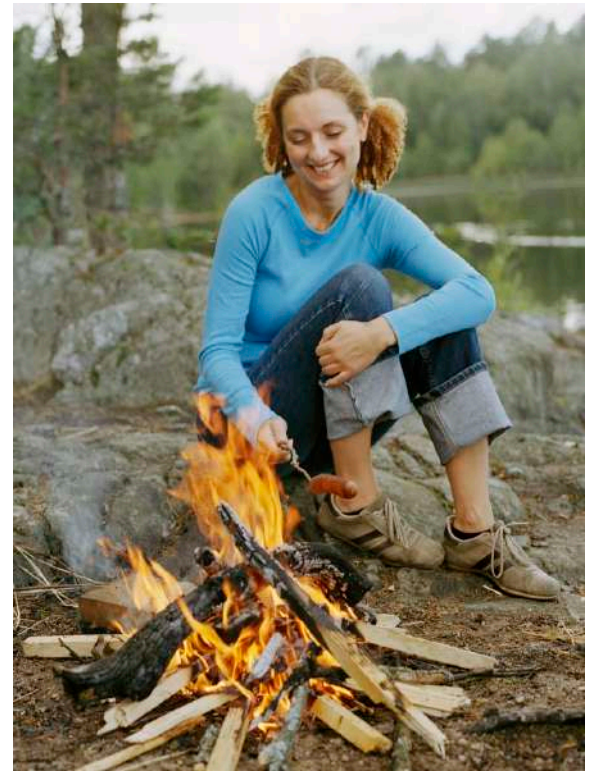
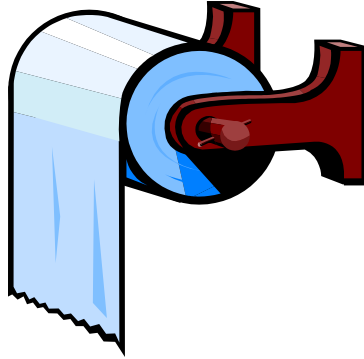
Glencoe Chapter 2 Section 1

Integrated Science

Pages 38-45

A. Scientific Discovery

- History is full of breakthroughs in science that have changed the course of human history.



Types of Discoveries

Some discoveries were through scientific experiments, and others were by random chance or out of necessity.



For example:

- Fire for cooking and heat was by chance
- Wearing animal skins to stay warm was by necessity
- Early medicine with roots and plant parts was a bit more scientific

Examples of Scientific Insight

1. Disease Prevention Today

- Measures are taken now because we know how contagious diseases are spread from person to person and what causes infections in wounds.



Examples of Scientific Insight

2. Weather Forecasting

- Meteorologists use a variety of specialized instruments to predict the weather.



B. What is technology?

- Science is an exploration process.
- Technology is the application of scientific knowledge of materials and processes to benefit people or to meet a human need.

Need



Applying



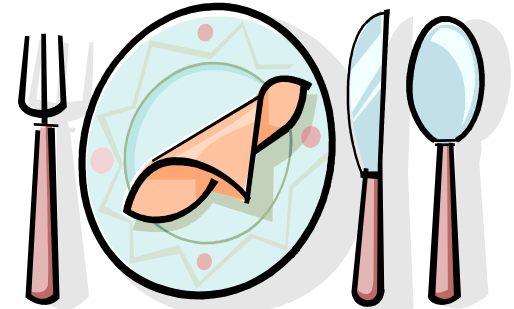
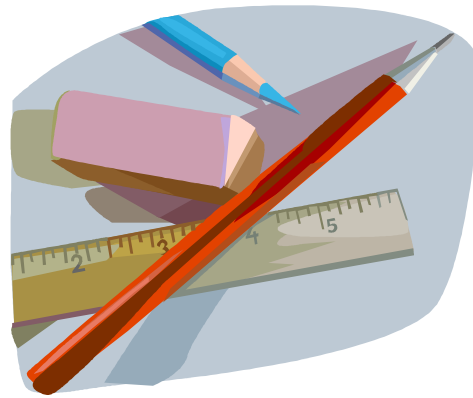
Technology



Technology can be:

1. Any human-made object
(technological object)

Examples: Computers,
Pencils, Bed, Spoon



2. Technological Methods or
Techniques for making an
object or tool

Examples: Glass making,
Weaving, Writing



Technology can be:

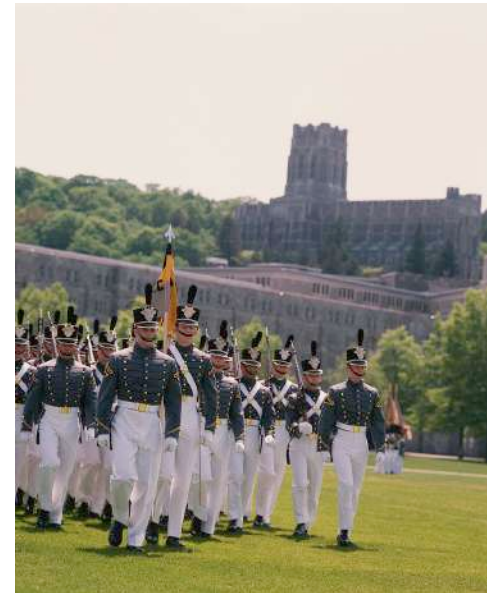
3. Knowledge or skills needed to operate a human-made object

Examples: Writing computer code,
Operating a car



4. A system of people and objects used to do a particular task

Examples: Internet,
Military, Airline industry



C. Global Technological Needs

- Developing countries

→ Technological solutions focus on supplying basic needs for families.

→ Technology that would supply adequate and safe drinking water and food supplies would be valued.



C. Global Technological Needs

- Industrialized Countries

→ Because the needs for survival are met in industrialized nations, money often is spent on technology.



designed to improve individuals.

Visualizing Technology Supplying Basic Needs

