1. Information technology is used to retrieve, process, and communicate information and as a tool to enhance learning.

Students:
- use a range of equipment and software to integrate several forms of information in order to create good quality audio, video, graphic, and text-based presentations.
- use spreadsheets and data-base software to collect, process, display, and analyze information. Students access needed information from electronic data bases and on-line telecommunication services.
- systematically obtain accurate and relevant information pertaining to a particular topic from a range of sources, including local and national media, libraries, museums, governmental agencies, industries, and individuals.
- collect data from probes to measure events and phenomena.
- use simple modeling programs to make predictions.

This is evident, for example, when students:
\[\text{▲} \] compose letters on a word processor and send them to representatives of industry, governmental agencies, museums, or laboratories seeking information pertaining to a student project.
\[\text{▲} \] acquire data from weather stations.
\[\text{▲} \] use a software package, such as Science Tool Kit, to monitor the acceleration of a model car traveling down a given distance on a ramp.
\[\text{▲} \] use computer software to model how plants grow under different conditions.

2. Knowledge of the impacts and limitations of information systems is essential to its effective and ethical use.

Students:
- understand the need to question the accuracy of information displayed on a computer because the results produced by a computer may be affected by incorrect data entry.
- identify advantages and limitations of data-handling programs and graphics programs.
- understand why electronically stored personal information has greater potential for misuse than records kept in conventional form.
3. Information technology can have positive and negative impacts on society, depending upon how it is used.

Students:
- use graphical, statistical, and presentation software to presents project to fellow classmates.
- describe applications of information technology in mathematics, science, and other technologies that address needs and solve problems in the community.
- explain the impact of the use and abuse of electronically generated information on individuals and families.

Students will access, generate, process, and transfer information using appropriate technologies.