

TECHNOLOGY EDUCATION CURRICULUM SUMMARY

The purpose of the Technology Education Curriculum Summary is to present an overview of the Technology Education curriculum. Parents are the intended audience of the Technology Education Curriculum Summary.

Biotechnology
Explain biotechnologies that relate to the propagating, maintaining, adapting, treating, and converting
Identify environmental, societal and economic impacts waste has on the environment.
Use various tools to solve problems

Communications Technology
Apply and analyze communication techniques to produce an image that effectively conveys a message
Demonstrate the effectiveness of image generating techniques to communicate a story (e.g., photography, video)
Use various tools to solve problems

Materials and Processes
Identify and safely use a variety of tools basic machines, materials and techniques to solve problems and answer questions
Explain basic material processes that manufactured objects undergo during production
Use knowledge of material effectiveness to solve specific construction problems.

Energy, Power and Transportation
Identify elements of simple machines in compound machines
Explain fluid power systems through the design and construction of appropriate models
Explain various motions using models
Determine the efficiency of mechanical systems by applying mathematical formulas
Differentiate among different types of construction applications.(e.g., microwave tower, power plant, aircrafts)
Use various tools to solve problems

Construction and Manufacturing
Identify changes in society as a result of technological development
Demonstrate and explain how human ingenuity and technological resources satisfy specific human needs, improve the quality of life, and extend human abilities.
Use knowledge of material effectiveness to solve specific construction problems.