NEW YORK STATE EDUCATION DEPARTMENT
MIDDLE LEVEL CAREER AND TECHNICAL EDUCATION

TECHNOLOGY EDUCATION

THE NATURE OF TECHNOLOGY

UPDATED MAY 2023

2. THE CORE CONCEPTS OF TECHNOLOGY

STUDENTS WILL:

a) Identify and describe technological system components that include input, process, output, and feedback elements
b) Describe how system components relate to each other in open and closed loop systems
c) Analyze how system components can interconnect to one another to create larger and more complex systems
d) Assess how missing components or malfunctions impact the operation of a system
e) Evaluate the tradeoffs of different technologies and compare the compromises between competing factors
f) Describe system maintenance that is required to keep a system operating properly, to keep it operating longer, or to improve its performance

3. THE RELATIONSHIPS AMONG TECHNOLOGIES AND CONNECTIONS BETWEEN TECHNOLOGY AND OTHER FIELDS

STUDENTS WILL:

a) Analyze the interaction of systems and the interrelationship of technological environments
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NEW YORK STATE DEPARTMENT OF LABOR: NEW YORK STATE CAREER ZONE

https://www.careerzone.ny.gov

Career Zone is a no-cost online career exploration and planning tool developed by the New York State Department of Labor. It offers career and education information on thousands of careers,