

NEW YORK STATE EDUCATION DEPARTMENT  
MIDDLE LEVEL CAREER AND TECHNICAL EDUCATION  
TECHNOLOGY EDUCATION  
THE NATURE OF TECHNOLOGY  
Z & K Z D dMAY 2023



## 2. THE CORE CONCEPTS OF TECHNOLOGY

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### 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

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### 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 most 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,