## Standards for Technological Literacy: Content for the Study of Technology

**Standards for Technological Literacy: Content for the Study of Technology (Grades 3-5)**

*Students will develop an understanding of:*

### THE NATURE OF TECHNOLOGY

**Core Concepts of Technology**
- Systems
- Processes
- Requirements

**Relationships Among Technologies**
- Technologies integrated

### DESIGN

**The Attributes of Design**
- Requirements of design

**Engineering Design**
- Engineering design process
- Creativity and considering all ideas
- Models

**The Role of Troubleshooting, Research and Development, Invention and Innovation, and Experimentation in Problem Solving.**
- Troubleshooting
- Invention and innovation
- Experimentation

### ABILITIES FOR A TECHNOLOGICAL WORLD

**Apply Design Process**
- Collecting information
- Visualize a solution
- Test and evaluate solutions
- Improve a design
## Standards for Technological Literacy: Content for the Study of Technology (Grades 6-8)

*Students will develop an understanding of:*

### THE NATURE OF TECHNOLOGY

**Core Concepts of Technology**
- *Systems*
- *Processes*
- *Requirements*

**Relationships Among Technologies**
- *Interaction of systems*
- *Knowledge from other fields of study and technology*

### DESIGN

**The Attributes of Design**
- *Design leads to useful products and systems*
- *There is no perfect design*

**Engineering Design**
- *Brainstorming*
- *Modeling, testing, evaluating, and modifying*

The Role of Troubleshooting, Research and Development, Invention and Innovation, and Experimentation in Problem Solving.
- *Troubleshooting*
- *Invention and innovation*
- *Experimentation*

### ABILITIES OF A TECHNOLOGICAL WORLD

**Apply Design Process**
- *Identify criteria and constraints*
- *Test and evaluate*
- *Make a product or system*

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