

Technology Education Grade 6

Course Description:	<p>The technology education curriculum will provide students with an opportunity to develop knowledge in the areas of technology, design, and production. The technology education curriculum is aligned with the Academic Standards for Science and Technology developed by the Pennsylvania Department of Education. These standards include:</p> <ul style="list-style-type: none">3.1 Unifying Themes3.2 Inquiry and Design3.6 Technology Education3.7 Technological Devices3.8 Science, Technology and Human Endeavors
Grade Level:	6 th grade
Length of Course:	<p>Frequency: 6 days per 6 day cycle Duration: 42 minutes Length: marking period Credits: ¼</p>
Prerequisites:	N/A
Textbook:	N/A
Expected Level of Achievement	<p>Students will be required to maintain a 70% or better. They will be required to come to class prepared to learn.</p> <ul style="list-style-type: none">93-100% = A85 – 92% = B77 – 84% = C70 – 76% = DBelow 70% = F

I. Northern York County School District Curriculum

Course Name:	Sixth Grade Technology Education			
Content:	(3.1) Unifying Themes			
Key Learning(s):	Relating the Different Areas of Technology			
Essential Question(s):	How is a model or diagram used to solve a problem?			
Grade Level:	6			
Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.1.7.A	Explain the parts of a simple system and their relationship to each other.	Students will compare and relate various processes in technology.	*Oral Responses	*Transparencies and PowerPoint
3.1.7.B	Describe the use of models as application of scientific or technological concepts.	Students will design diagrams or models to explain processes or products.	*Completion of Assignments	*Diagrams and Models
3.1.7.C	Identify patterns as repeated processes or recurring elements in science and technology.	Students will compare different technological systems to find similarities.	*Tests and Quizzes	*Resource Handouts
3.1.7.D	Explain scale as a way of relating concepts and ideas to one another by some measure.	Students will design and create scale models of products.	*Completion of Cooperative Tasks	*Technology
3.1.7.E	Identify change as a variable in describing natural and physical systems.	Students will discuss technological advances to solve practical problems.	*Technology-Based Assessment	*Internet
			*Group Discussion and Presentations	*Manipulatives and Tools
			*Projects	*Grid Paper

II. Northern York County School District Curriculum

Course Name:	Sixth Grade Technology Education
Content:	(3.2) Inquiry and Design
Key Learning(s):	Identify and Apply Various Methods in Design Process
Essential Question(s):	Why is it important to understand different structural designs?
Grade Level:	6

Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.2.7.A	Explain and apply scientific and technological knowledge.	Students will determine how technology innovations may change existing practices.	*Oral Responses	*Transparencies and PowerPoint
3.2.7.B	Apply process knowledge to make and interpret observations.	Students will recognize and utilize a variety of measurement tools.	*Completion of Assignments	*Diagrams and Models
3.2.7.D	Know and use the technological design process to solve problems.	Students will discuss a variety of engineering differences and determine the most effective structure.	*Tests and Quizzes	*Resource Handouts
			*Completion of Cooperative Tasks	*Technology
			*Technology-Based Assessment	*Internet
			*Group Discussion and Presentations	*Manipulatives and Tools
			*Projects	*Grid Paper

III. Northern York County School District Curriculum

Course Name:	Sixth Grade Technology Education			
Content:	(3.7) Technical Devices			
Key Learning(s):	Identify a Variety of Tools, and Recognize their Uses			
Essential Question(s):	Why is it important to use the correct tool for a specific task?			
Grade Level:	6			
Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.7.7.A	Describe the safe and appropriate use of tools, materials, and techniques to answer questions and solve problems.	Students will recognize different tools and be able to determine the correct tool for a given task.	*Oral Responses	*Transparencies and PowerPoint
3.7.7.B	Use appropriate instruments and apparatus to study materials.	Students will use correct measurement instruments to measure materials to specific increments.	*Completion of Assignments *Tests and Quizzes	*Diagrams and Models *Resource Handouts
3.7.7.D	Apply computer software to solve specific problems.	Students will recognize and use software designed to communicate effectively.	*Completion of Cooperative Tasks *Technology-Based Assessment *Group Discussion and Presentations *Projects	*Technology *Internet *Manipulatives and Tools *Grid Paper

IV. Northern York County School District Curriculum

Course Name:	Sixth Grade Technology Education			
Content:	(3.8) Science, Technology, and Human Endeavors			
Key Learning(s):	Recognize How Technology Impacts Society			
Essential Question(s):	How have technological advances changed our society?			
Grade Level:	6			
Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.8.7.A	Explain how sciences and technologies are limited in their effects and influences on society.	Students will identify changes in society as a result of technologies and development.	*Oral Responses	*Transparencies and PowerPoint
3.8.7.B	Explain how human ingenuity and technological resources satisfy specific human needs and improve the quality of life.	Students will discuss current trends in technology which improve the quality of life.	*Completion of Assignments	*Diagrams and Models
3.8.7.C	Identify the pros and cons of applying technological and scientific solutions to address problems and the effect upon society.	Students will describe the positive and negative effects of specific technological developments.	*Tests and Quizzes	*Resource Handouts
			*Completion of Cooperative Tasks	*Technology
			*Technology-Based Assessment	*Internet
			*Group Discussion and Presentations	*Manipulatives and Tools
			*Projects	*Grid Paper