

Technology Education Grade 7

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 Devices
Grade Level:	7 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:	Seventh Grade Technology Education			
Content:	(3.1) Unifying Themes			
Key Learning(s):	Recognize Relevance of Models and Drawings			
Essential Question(s):	Why are there different forms of drawing in design?			
Grade Level:	7			
Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.1.7.B	Describe the use of models as application of scientific or technological concepts.	Students will design and modify models to enhance final product.	*Oral Responses	*Transparencies and PowerPoint
3.1.7.D	Explain scale as a way of relating concepts and ideas to one another by some measure.	Students will apply principles of isometric, multi-view, and oblique drawings.	*Completion of Assignments *Tests and Quizzes *Structure Designs *Group Discussion and Presentations *Projects	*Diagrams and Models *Resource Handouts *Technology *Internet *Manipulatives and Tools *Grid Paper *Project Materials *Videos

II. Northern York County School District Curriculum

Course Name:	Seventh Grade Technology Education			
Content:	(3.2) Inquiry and Design			
Key Learning(s):	Recognize Most Effective Design of Products			
Essential Question(s):	How are models used in the design process?			
Grade Level:	7			
Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.2.7.B	Apply process knowledge to make and interpret observations.	Students will modify design of a product based on reaction to different variables.	*Oral Responses	*Transparencies and PowerPoint
3.2.7.D	Know and use the technological design process to solve problems.	Students will use diagrams and models to design an effective product.	*Completion of Assignments *Tests and Quizzes *Structure Designs *Group Discussion and Presentations *Projects	*Diagrams and Models *Resource Handouts *Technology *Internet *Manipulatives and Tools *Grid Paper *Project Materials *Videos

III. Northern York County School District Curriculum

Course Name:	Seventh Grade Technology Education			
Content:	(3.6) Technology Education			
Key Learning(s):	Compare Different Design and Production Methods			
Essential Question(s):	Why is it important to research a variety of structure designs?			
Grade Level:	7			
Number	Standard	Student Learning Experiences	Procedures for Assessment	Resources
3.6.7.C	Explain physical technologies of structural design, analysis and engineering, personnel relations, financial affairs, structural production, marketing, research, and design.	Students will research, compare and discuss various limitations of different designs and structures.	<ul style="list-style-type: none"> *Oral Responses *Completion of Assignments *Tests and Quizzes *Structure Designs *Group Discussion and Presentations *Projects 	<ul style="list-style-type: none"> *Transparencies and PowerPoint *Diagrams and Models *Resource Handouts *Technology *Internet *Manipulatives and Tools *Grid Paper *Project Materials *Videos

IV. Northern York County School District Curriculum

Course Name:	Seventh Grade Technology Education			
Content:	(3.7) Technical Devices			
Key Learning(s):	Recognize and Use Appropriate Tools			
Essential Question(s):	What is the importance of using appropriate tools and materials to solve a problem?			
Grade Level:	7			
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 correctly use the appropriate tools to manufacture products.	*Oral Responses	*Transparencies and PowerPoint
3.7.10.B	Apply appropriate instruments and apparatus to examine a variety of objects and processes.	Students will use appropriate instruments to gather and analyze data in the manufacturing process.	*Completion of Assignments *Tests and Quizzes *Structure Designs *Group Discussion and Presentations *Projects	*Diagrams and Models *Resource Handouts *Technology Internet *Manipulatives and Tools *Grid Paper *Project Materials *Videos