

**WEST JEFFERSON HILLS SCHOOL DISTRICT
TECHNOLOGY CURRICULUM**

GRADE 8

<p style="text-align: center;">PA Academic Standards Student must be able to do</p>	<p style="text-align: center;">Objective Content or process student will be able to know and do</p>	<p style="text-align: center;">Instructional Methods</p>	<p style="text-align: center;">Materials/ Resources Textbooks, trade books, workbooks, software, hardware, etc.</p>	<p style="text-align: center;">*Assessment Procedures *Additional adaptations, modifications, accommodations, and enrichment/ acceleration will be provided per IEP</p>	<p style="text-align: center;">*Additional Learning Opportunities for students who do not meet basic standards *Additional adaptations, modifications, and accommodations will be provided per IEP</p>	<p style="text-align: center;">*Extended Learning Opportunities for students who can go beyond the basic standards. *Additional enrichment/acceleration will be provided per IEP</p>
<p>Technology Education 3.6.10. Grade 8</p>						
<p>A. Apply biotechnologies that relates to propagating, growing, maintaining, adapting, treating and converting.</p> <ul style="list-style-type: none"> • Apply knowledge of biomedical technology applications in designing a solution to a simple medical problem (e.g., wheel chair design, artificial arteries). • Apply knowledge of how biomedical technology affects waste projects in designing a solution that will result in reduced waste. • Apply ergonomic engineering factors when devising a solution to a specific problem. 						

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<ul style="list-style-type: none"> •Describe various methods of biochemical conversion. •Describe specific examples that reflect the impact that agricultural science has had on biotechnology. 						

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Technology Education 3.6.10. Grade 8						
B. Apply knowledge of information technologies of encoding, transmitting, receiving, storing, retrieving and decoding. <ul style="list-style-type: none"> • Describe the proper use of graphic and electronic communication systems. • Apply a variety of advanced mechanical and electronic drafting methods to communicate a solution to a specific problem. • Apply and analyze advanced communication techniques to produce an image that effectively conveys a message (e.g., desktop publishing, audio and/or video production). • Illustrate an understanding of a computer network system by modeling, constructing or assembling its components. 						

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<p>C. Apply physical technologies of structural design, analysis and engineering, personnel relations, financial affairs, structural production, marketing, research and design to real world problems.</p> <ul style="list-style-type: none"> • Describe and classify common construction by their characteristics and composition. • Compare and contrast specific construction systems that depend on each other in order to complete a project. • Evaluate material failure common to specific applications. • Demonstrate knowledge of various construction systems by building or interpreting 						

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<p>Technology Education 3.6.10. Grade 8</p>						
<ul style="list-style-type: none"> • Select and apply the necessary resources to successfully conduct a manufacturing enterprise. • Apply concepts of design engineering and production engineering in the organization and application of a manufacturing activity. • Apply the concepts of manufacturing by redesigning an enterprise to improve productivity or reduce or eliminate waste and/or pollution.. • Evaluate the interrelationship of various transportation systems in the community. • Analyze the impacts that transportation have on a community. 						

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<p>Technology Devices 3.7.10 Grade 8</p>						
<p>A. Identify and safely use a variety of tools, basic machines, materials and techniques to solve problems and answer questions.</p> <ul style="list-style-type: none"> • Select and safely apply appropriate tools, materials and processes necessary to solve complex problems. • Apply advanced tool and equipment manipulation techniques to solve problems. 						

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<p>Technology Devices 3.7.10 Grade 8</p>						
<p>B. Apply appropriate instruments and apparatus to examine a variety of objects and processes.</p> <ul style="list-style-type: none"> • Describe and use appropriate instruments to gather and analyze data. • Compare and contrast different scientific measurement systems; select the best measurement system for a specific situation. • Explain the need to estimate measurements within error of various instruments. • Apply accurate measurement knowledge to solve everyday problems. 						

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<p>Technology Devices 3.7.10 Grade 8</p>						
<ul style="list-style-type: none"> •Describe and demonstrate operation and use of advanced instrumentation in evaluating material and chemical properties (e.g., scanning electron microscope, nuclear magnetic resonance machines). 						

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<p>Technology Devices 3.7.10 Grade 8</p>						
<p>C. Apply basic computer operations and concepts.</p> <ul style="list-style-type: none"> • Identify solutions to basic hardware and software problems. • Apply knowledge of advanced input devices. • Apply knowledge of hardware setup. • Describe the process for basic software installation and demonstrate it. • Analyze and solve basic operating systems problems. • Apply touch keyboarding skills and techniques at expectable speed and accuracy. • Demonstrate the ability to perform basic software installation. 	<p>Develop efficient keyboard technique (goal of 50gwpm with 90% accuracy) Keep eyes on copy, not on fingers</p> <p>Correct Posture at Keyboard (back against chair, feet flat, arms relaxed, fingers on home row, eyes forward, a hand's length distance from keyboard)</p>	<ul style="list-style-type: none"> - Teacher demonstration - Student demonstration - Modeling behavior - One-on-one teaching - Lecture/ discussion - Cooperative learning - Guided practice 	<ul style="list-style-type: none"> - A computer for each student - Microsoft Office XP installed on all machines. - Type to Learn (updated version) installed on all machines. - Color & B/W printer in the room. - Smartboard and projector for teacher demonstration - Pocket folders with clasps for keeping papers, notes and assignments. (one per student) 	<ul style="list-style-type: none"> - The teacher will observe students - The students will complete keyboarding lessons on a keyboarding program. This program will assess the students' speed and accuracy on a continuing basis. - The students will take a keyboarding exam which assesses their speed and accuracy 	<ul style="list-style-type: none"> - Peers re-teach - Individual instruction - Alternative assignments - Extended time - Structured folder with class notes and written class instruction 	<ul style="list-style-type: none"> - Peer tutoring and reciprocal teaching - Real-world applications

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<p>Technology Devices 3.7.10 Grade 8</p>						
<p>D. Utilize computer software to solve specific problems.</p> <ul style="list-style-type: none"> • Identify legal restrictions in the use of software and the output of data. • Apply advanced graphic manipulation and desktop publishing techniques. • Apply basic advanced word processing, database and spreadsheet skills. • Describe and demonstrate how two or more software applications can be used to produce an output. • Select and apply software designed to meet specific needs. 	<ul style="list-style-type: none"> • Identify and use editing and formatting features of a word processing program • (Left, right, center and justified alignment • Line spacing • Page Margins • Cut, Copy, Paste and Drag & Drop • Fonts, styles • Spelling, Grammar, Thesaurus • Page Numbers, Footnotes) • Be able to insert images into word processor documents 	<ul style="list-style-type: none"> - Teacher demonstration - Student demonstration - Modeling behavior - One-on-one teaching - Lecture/ discussion - Cooperative learning - Guided practice 	<ul style="list-style-type: none"> - A computer for each student - Microsoft Office XP installed on all machines. - Microsoft Publisher installed on all machines. - Internet Explorer installed on all machines - Color & B/W printer in the room. - Smartboard and projector for teacher demonstration - Digital camera - Scanner - Pocket folders with clasps for students 	<ul style="list-style-type: none"> - Students will complete group projects that cover all competencies outlined previously and they will be printed and graded - Students will also be completing individual assignments to assess their understanding of the concepts covered in class (to be printed and graded) - The teacher will create exams for the students to prove their competency - The teacher will 	<ul style="list-style-type: none"> - Peers re-teach - Individual instruction - Alternative assignments - Extended time - Structured folder with class notes and written class instruction 	<ul style="list-style-type: none"> - Peer tutoring and reciprocal teaching - Real-life applications - Students will have an opportunity to use devices such as a scanner and a digital camera to enhance presentations and reports

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	<ul style="list-style-type: none"> • Describe structure and function of database and identify components of a database (records and fields) • Perform complex operations in a database (sort, filter, delete/add data, search, browse) • Create an original database, defining field formats and adding new records 			<p>observe the students as they work and learn</p> <ul style="list-style-type: none"> - Students will demonstrate competency to other students - Students will demonstrate competency to teacher and other students through presentations (individual projects) 		

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	<ul style="list-style-type: none"> • Describe structure and function of a spreadsheet • (cells, rows, columns, formulas) and apply formatting features. • Create an original spreadsheet, entering simple formulas (addition, subtraction, multiplication, division) • Produce simple charts and graphs from spreadsheet data. • Hyperlinks (web, slide, file, e-mail) • Multimedia (video, sound, animated GIF files) 					

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<p>Technology Devices 3.7.10 Grade 8</p>						
<p>E. Apply basic computer communication systems.</p> <ul style="list-style-type: none"> • Identify and explain various types of on-line services. • Identify and explain the functions of the parts of a basic network. • Describe and apply the components of a web page and their function. • Explain and demonstrate file transfer within and outside of a computer network. • Identify, describe and complete advanced on-line research. 	<ul style="list-style-type: none"> - Use the internet and search engines effectively to find relevant, unbiased and current information on a subject. - Organize information that is collected using a variety of tools (word processor, spreadsheet, database, graphic organizer) - Demonstrate the knowledge of computer networks (LAN, WAN, Server, Hub, Router) - Demonstrate basic knowledge of the 	<ul style="list-style-type: none"> - Teacher demonstration - Student demonstration - Modeling behavior - One-on-one teaching - Lecture/ discussion - Cooperative learning 	<ul style="list-style-type: none"> - A computer for each student - Microsoft Office XP installed on all machines. - Microsoft Publisher installed on all machines. - Internet Explorer installed on all machines - Color & B/W printer in the room. - Smartboard and projector for teacher demonstration - Digital camera - Scanner - Pocket folders with clasps for students 	<ul style="list-style-type: none"> - Students will complete group projects that cover all competencies outlined previously and they will be printed and graded - Students will also be completing individual assignments to assess their understanding of the concepts covered in class (to be printed and graded) - The teacher will create exams for the students to prove their competency - The teacher will 	<ul style="list-style-type: none"> - Peers re-teach - Individual instruction - Alternative assignments - Extended time - Structured folder with class notes and written class instruction 	<ul style="list-style-type: none"> - Peer tutoring and reciprocal teaching - Real-life applications - Students will have an opportunity to use devices such as a scanner and a digital camera to enhance presentations and reports

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<p>Technology Devices 3.7.10 Grade 8</p>						
	<p>parts of a web page and how to design a very simple page (hyperlinks, backgrounds, pictures, sounds, copying java code)</p>			<p>observe the students as they work and learn - Students will demonstrate competency to other students - Students will demonstrate competency to teacher and other students through presentations (individual projects)</p>		

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<p>Science, Technology and Human Endeavors 3.8.10 Grade 8</p>						
<p>A. Analyze the relationship between societal demands and scientific and technological enterprises.</p> <ul style="list-style-type: none"> • Identify past and current tradeoffs between increased production, environmental harm and social values (e.g., increased energy needs, power plants, automobiles). • Compare technologies that are applied and accepted differently in various cultures (e.g., factory, farming, nuclear power). • Describe and evaluate social change as a result of technological developments. 						

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<p>Science, Technology and Human Endeavors 3.8.10 Grade 8</p>						
<ul style="list-style-type: none"> • Assess the social impacts of a specific international environmental problem by designing a solution that applies the appropriate technologies and resources. 						

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<p>Science, Technology and Human Endeavors 3.8.10 Grade 8</p>						
<p>B. Analyze how human ingenuity and technological resources satisfy specific human needs and improve the quality of life.</p> <ul style="list-style-type: none"> • Identify several problems and opportunities that exist in your community, apply various problem-solving methods to design and evaluate possible solutions. • Analyze a recently invented item describing the human need that prompted its invention and the current and potential social impacts of the specific invention. 						

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<p>Science, Technology and Human Endeavors 3.8.10 Grade 8</p>						
<ul style="list-style-type: none"> • Apply knowledge of oceanography, meteorology, geology and human anatomy to explain important considerations that need to be made for construction of homes, buildings, and businesses in the United States. • Assess the impacts that agricultural science has had on meeting human needs and improving the quality of life. 						