

**WEST JEFFERSON HILLS SCHOOL DISTRICT
TECHNOLOGY CURRICULUM**

GRADE 7

<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 3.6.7 GRADE 7</p>						
<p>A. Explain biotechnologies that relate to related technologies of propagating, growing, maintaining, adapting, treating, and converting.</p> <ul style="list-style-type: none"> • Identify the environmental, societal and economic impacts that waste has in the environment. • Identify and explain the impact that a specific medical advancement has on society. • Explain the factors that were taken into consideration when a specific object was designed. • Define and describe how fuels and energy can be generated through the process of biomass conversion. 						

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<p>B. Explain information technologies of encoding, transmitting, receiving, storing, retrieving, and decoding.</p> <ul style="list-style-type: none"> • Demonstrate the effectiveness of image generating technique to communicate a story (e.g., photography, video). • Analyze and evaluate the effectiveness of a graphic object designed and produced to communicate a thought or concept. • Apply basic technical drawing techniques o communicate an idea or solution to a problem. 						

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<p>C. Explain physical technologies of structural design, analysis and engineering, personnel relations, financial affairs, structural production, marketing research and design.</p> <ul style="list-style-type: none"> • Use knowledge of material effectiveness to solve specific construction problems (e.g., steel vs. wood bridges). • Differentiate among the different types of construction applications (e.g., microwave tower, power plants, aircrafts). 						

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<ul style="list-style-type: none"> • Explain basic material processes that manufacturing objects undergo during production. (e.g., separating, forming, combining). • Evaluate a construction activity by specifying task analyses and necessary resources. • Explain the relationships among the basic resources needed in the production process for a specific manufactured object. • Explain the difference between design engineering and production engineering processes. 						

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<p>Technology Education 3.6.7 GRADE 7</p>						
<ul style="list-style-type: none"> • Analyze manufacturing steps that affect waste and pollutants. • Explain transportation technologies of propelling, structuring, suspending, guiding, controlling, and supporting. • Identify and explain the workings of several mechanical power systems. • Model and explain examples of vehicular propulsion, control, guidance, structure and suspension systems. • Explain the limitations of land, marine, air and space transportation. 						

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<p>Technology Devices 3.7.7 GRADE 7</p>						
<p>A. Describe the safe and appropriate use of tools, materials and techniques to answer questions and solve problems.</p> <ul style="list-style-type: none"> • Identify uses of tools, machines, materials, information, people, money, energy, and time that meet specific design criteria. • Describe safe procedures for using tools and materials. • Assess materials for appropriateness of use. 						

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<p>Technology Devices 3.7.7 GRADE 7</p>						
<p>B. Use appropriate instruments and apparatus to study materials.</p> <ul style="list-style-type: none"> •Select appropriate instruments to measure the size, weight, shape and temperature of living and non-living objects. •Apply knowledge of different measurement systems to measure and record objects' properties. 						

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<p>Technology Devices 3.7.7 GRADE 7</p>						
<p>C. Explain and demonstrate basic computer operations and concepts.</p> <ul style="list-style-type: none"> • Know specialized computer applications used in the community. • Describe the function of advanced input and output devices (e.g., scanners, video images, plotters, projectors) and demonstrate their use. • Demonstrate age appropriate keyboarding skills and techniques. 	<ul style="list-style-type: none"> - Develop efficient keyboard technique (goal of 35gwpm with 90% accuracy) - Keep eyes on copy, not on fingers - Correct Posture at Keyboard (back against chair, feet flat, arms relaxed, fingers on home row, eyes forward, a hand's length distance from keyboard) 	<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-life applications

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<p>Technology Devices 3.7.7 GRADE 7</p>						
<p>D. Apply computer software to solve specific problems.</p> <ul style="list-style-type: none"> •Identify software designed to meet specific needs (e.g., Computer Aided Drafting, design software, tutorial, financial, presentation software). •Identify and solve basic software problems relevant to specific software applications. •Identify basic multimedia applications •Demonstrate a basic knowledge of desktop publishing applications. 	<ul style="list-style-type: none"> - Use publishing software to create flyers, brochures, letterhead and business cards. - Use publishing software to edit and correctly format desktop publishing documents. - Be aware of the principles of desktop publishing and apply those principles to a desktop publishing project or slide show. 	<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 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) 	<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"> • Apply intermediate skills in utilizing word processing, database and spreadsheet software. • Apply basic graphic manipulation techniques. 	<ul style="list-style-type: none"> - Identify and use editing and formatting features of a word processing program <ul style="list-style-type: none"> • 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 and other similar type files <ul style="list-style-type: none"> • - Describe structure and function of database and identify components of a database (records and 	<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"> - 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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	fields) - Perform simple operations in a database (delete/add data, search, browse) - Create and original database, defining field formats and adding new records - 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) - Create a slide presentation using appropriate applications Using MS PowerPoint, creating slides that include: <ul style="list-style-type: none"> • Custom animation and slide transition • Clipart and WordArt • Design templates • Action Buttons 					

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	<ul style="list-style-type: none"> • Hyperlinks (web, slide, file, e-mail) Multimedia (video, sound, animated GIF files) 					

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<p>E. Explain basic computer communications systems.</p> <ul style="list-style-type: none"> • Describe the organization and functions of the basic parts that make up the World Wide Web. • Apply advanced electronic mail functions. • Apply basic on-line research techniques to solve a specific problem. 	<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) - Write correct citations for text and images gathered from electronic sources. 	<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. - Internet Explorer installed on all machines - Color & B/W printer in the room. - Smartboard and projector for teacher demonstration - Pocket folders with clasps for students 	<ul style="list-style-type: none"> - Teacher will observe students as they work and learn - Students will perform searches on topics and report what they find in a formal, written format 	<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>Science, Technology and Human Endeavors 3.8.7 GRADE 7</p>						
<p>A. Explain how sciences and technologies are limited in their effects and influences on society.</p> <ul style="list-style-type: none"> • Identify and describe the unavoidable constraints of technological design. • Identify changes in society as a result of a technological development. • Identify and explain improvements in transportation, health, sanitation, and communications as a result of advancements in science and technology and how they affect our lives. 	<ul style="list-style-type: none"> - Explain and demonstrate understanding of classroom rules regarding responsible use of computers. - Explain and demonstrate ethical and legal behavior in copying files, applications and media from the internet 	<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. - Internet Explorer installed on all machines - Color & B/W printer in the room. - Smartboard and projector for teacher demonstration - Pocket folders with clasps for students 	<ul style="list-style-type: none"> - Teacher will observe students as they work and learn 	<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

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<p>Science, Technology and Human Endeavors 3.8.7 GRADE 7</p>						
<p>B. Explain how human ingenuity and technological resources satisfy specific human needs and improve the quality of life.</p> <ul style="list-style-type: none"> • Identify interrelationships between systems and resources. • Identify and describe the resources necessary to solve a selected problem in a community and improve the quality of life. • Identify and explain specific examples of how agricultural science has met human needs and has improved the quality of life. 						

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Science, Technology and Human Endeavors 3.8.7 GRADE 7						
C. Identify the pros and cons of applying technological and scientific solutions to address problems and the effect upon society. <ul style="list-style-type: none"> • Describe the positive and negative expected and unexpected effects of specific technological developments. • Describe ways technology extends and enhances human abilities. 						