



GREAT NECK PUBLIC SCHOOLS

"Where Discovery Leads to Greatness"

#DiscoverGreatness

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Curriculum Profile: Technology 6

<u>Department</u>	Technology	
<u>Course Name</u>	Technology 6	
<u>Course Length</u>	Ten weeks (one quarter)	
<u>High School Credits</u>	N/A	
<u>Description</u>	In this 10-week class, students will be introduced to the concept of the 'Human engineered world'. Students will learn how anything created by humans is technology. A deep exploration of hand tools, and machine tools will allow students to construct a desk organizer made from wood (Pine). During this process an emphasis will be placed on modern manufacturing technologies. These include - Assembly line, robotics, and CNC Tools. When the students complete the desk organizer, the class will shift into a simple machines unit. Students will use LEGO robotics to learn about the 6 different simple machines. Pulley, Wheel & Axle , Lever, Gears, Wedge, Inclined plane.	
<u>Target/eligible students</u>	students in grade 6	
<u>State Learning Standards Link(s)</u>	http://www.nysed.gov/career-technical-education/technology-education-learning-standards	
<u>Primary texts and materials</u>	Wood (Pine), hand saws, power drills, Disc/Belt Sander, Lego Robotics kits, Various construction materials	
<u>Scope/Sequence</u>		
<u>Introduction to technology</u>	1. Introduce students to what technology is, how it impacts their world, and that it is more than just computers 2. Resources of technology - TEMPTIC a. Tools & Machines b. Energy c. Materials d. People e. Time f. Information g. Capital 3. Human needs	
<u>Safety</u>	New York State MST Standard 5 - 2 Tools Resources and technological process	Prior to working in the technology lab, students must go through a comprehensive safety unit. Safety rules are distributed, signed by legal guardians of the student, a safety video is viewed, and a safety test is taken.
<u>Mass Production</u>	New York State MST Standard 5 - 2 Tools Resources and technological process New York State MST standards - standard 5 - 6 Impacts of technology	1. Students learn the various attributes of manufacturing. Past, present and future. 2. Students learn about the 'Model T' Ford, its impact on modern society, and how automobile manufacturing evolved since 1908.

<u>Materials</u>	New York State MST standards - standard 5 - 6 Impacts of technology	Students learn about different materials and their attributes. This unit focuses specifically on wood, wood identification , and how to identify species of tree for wood identification purposes.
<u>Lab work/ Tool exploration</u>	New York State MST standards - standard 5 - 6 Impacts of technology	Students work in the lab, learning a variety of tools and machines. These include : a. Coping saw b. Jigs and fixtures c. Disc/Belt Sanding d. Drill Press e. Hand Sanding f. Glue and glue spreading g. Finishing applications (Wax/ Polyurethane) h. Laser engravers i. CNC Carving machines
<u>Simple machines</u>	New York State MST standards - standard 5 - 5 History and evolution of technology	Through the use of Legos and Lego robotics students will explore the 6 different machines and their applications in our day to day lives.
<u>Additional Notes</u>		