

Cliffside Park Public Schools

**MIDDLE SCHOOL TECHNOLOGY
CURRICULUM TOPICS**

GRADE 7 TOPICS AND NJSLS	KEY-BOARDING	DATA RESEARCH	DIAGRAMS, MAPS, WEBS, FLOW CHARTS	WORD PROCESSING	NEWS-LETTER	WEB PAGES	SPREAD-SHEETS, CHARTS, & GRAPHS	HYPER-MEDIA	DIGITAL IMAGES	DESIGN PRO-GRAMS
	8.1.7.A.1 8.1.7.A.2	8.1.7.A.1 8.1.7.A.2 8.1.7.A.3	8.1.7.A.1 8.1.7.A.2 8.1.7.A.3 8.1.7.A.4	8.1.7.A.1 8.1.7.A.2	8.1.7.A.1 8.1.7.D.1	8.1.7.A.1 8.1.7.A.3 8.1.7.B.1	8.1.7.A.1 8.1.7.A.2 8.1.7.A.5	8.1.7.A.1 8.1.7.A.3 8.1.7.A.5 8.1.7.A.5 8.1.7.B.1	8.1.7.A.1 8.1.7.A.5	8.1.7.A.1 8.1.7.A.2 8.1.7.A.4 8.1.7.A.5
ACTIVITIES	Application of skills for appropriate use of operations and related applications	To research and download data to be used in presentation	To create Flow of Data based on information from math/science class	To create professional letters, resumes, and creative stories (use writing from English class)	Create a monthly newsletter for the school	Create a Web page with hyperlinks, text, pictures, clipart, thumbnails based on a topic from social studies	Using information from science/math class, gather data, insert data, and create a display	Create a running presentation of student gathered information	Take pictures, download images, rename and sort pictures to be inserted and edited	Design flow, learn syntax of application, create and load table, manipulate data, use of If/Else statements, design automated hypermedia end products
RESOURCES	Mavis Beacon Tutorial	World Wide Web	Inspiration Handwritten	Microsoft Word	Press Writer	Microsoft FrontPage	Microsoft Excel	Microsoft PowerPoint	Camera & Microsoft Applications	Inspiration, Excel, Access, PowerPoint

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GRADE 8 TOPICS AND NJSL	<p>AUDIO COMMUNICATIONS</p> <p>-To define the types of audio communications; the components of recording and radio systems, history of radio</p> <p>8.1.8.A.5 8.1.8.B.1 8.1.8.C.1 8.1.8.D.1 8.2.8.A.1</p>	<p>CAD</p> <p>-To demonstrate the use of computer skills in the use of a CAD software program</p> <p>-define the use of CAD as a communication process</p> <p>VIRTUAL ARCHITECTURE</p> <p>-Identify and select appropriate tools used by architects, designers, and homeowners for designing structures</p> <p>-Determine suitable replacements for conventional residential exterior</p> <p>8.1.8.A.1 8.1.8.A.5 8.1.8.B.1 8.1.8.E.1 8.2.8.B.3</p>	<p>COMPUTER GRAPHICS</p> <p>-To describe how communication technology developed</p> <p>-to describe the different uses of computer graphics</p> <p>-to develop and apply fundamental music structure and apply to digital and analog music</p> <p>8.1.8.B.1 8.2.8.E.1</p>	<p>ELECTRICITY/ELECTRONICS</p> <p>-To develop and describe electrical systems and their components</p> <p>-To describe the elements and concerns of electrical safety and practices</p> <p>8.2.8.B.2 8.2.8.B.3</p>	<p>ENVIRONMENT & ECOLOGY</p> <p>-To explore and identify the factors necessary to grow plant matter</p> <p>FLIGHT TECHNOLOGY</p> <p>-to discuss history and future of rocketry and flight systems, and the forces that affect rocket flight</p> <p>8.2.8.B.2 8.2.8.B.3</p>	<p>HEALTH AND BODY SYSTEMS</p> <p>-identify the 7 major body systems</p> <p>-describe the function, impact, and importance of weight to height ration</p> <p>8.2.8.G.1 8.2.8.G.2</p>	<p>INFORMATION TECHNOLOGY</p> <p>-identify and describe the components of modern information processing systems to the past</p> <p>8.1.8.E.1 8.2.8.A.1 8.2.8.B.1</p>	<p>ROBOTICS</p> <p>-identify the characteristics of a variety of types and sizes of robots</p> <p>-describe how artificial intelligence is applied on robotics systems</p> <p>8.2.8.B.1 8.2.8.E.1 8.2.8.C.1 8.2.8.F.2</p>	<p>STRUCTURAL ENGINEERING</p> <p>-identify and classify the portion of a structure's frame under tension, torsion, shear, and compression</p> <p>8.2.8.F.1 8.2.8.F.2 8.2.8.G.1 8.2.8.G.2</p>	<p>VIDEO PRODUCTION</p> <p>-To identify the fundamental objectives of video production from historical to contemporary</p> <p>-To identify The major components of a video editing system and operate correctly</p> <p>8.1.8.A.5 8.1.8.B.1 8.2.8.E.1</p>
ACTIVITIES	<p>-Create and develop a series of radio "copy", such as writing news, weather, commercials, and weather information</p>	<p>-Create a Multiview drawing</p> <p>-Add details to a floor plan</p> <p>-Read a blueprint</p> <p>-Create doors and windows for drawing</p>	<p>-Create a flipbook animation using a software program</p> <p>-Use software program to enter music and lyrics for a song</p>	<p>-To learn the functions and proper use of a multimeter and record in a journal</p> <p>-To create and test a basic series circuit; record the results</p>	<p>-Begin the process of growing plants in a hydroponic greenhouse</p> <p>-watch video to see what happens to trash; recycling</p> <p>-construct and launch a rocket</p>	<p>-Determine and record personal health data</p>	<p>-Explore the history of computers</p> <p>-design and produce a document using word processing software</p> <p>-create a slideshow using multimedia software</p>	<p>-Watch video</p> <p>-apply what is learned from video to teach "Cye"</p>	<p>-Design and construct a bridge</p> <p>-Test durability of structure</p>	<p>-Develop a script and storyboard</p> <p>-Film a news story and commercial</p>

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RESOURCES	Video: “Identifying the Components”	Software: CAD	Software: MusicTime Deluxe	World Wide Web	Video: “The Rotten Truth” Software: Flight Simulator	Software: “The Ultimate Human Body”	Software: Microsoft PowerPoint	Video: “History of Robotics”	Software:	Video: “Identifying the Compon- ents”
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