

Technology
Hinsdale School District

Grade Level: Eight

Standard: Basic Operations and Concepts

Goal: Students demonstrate a sound understanding of the nature and operation of technology systems

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Recognize hardware and software components used to provide access to network resources and know how common peripherals (e.g. scanners, digital cameras, and video projectors) are accessed, controlled connected and used effectively and efficiently.</p>	<p>Grade 8 Technology-Computer Skills Using Computers, Part 1</p> <p>Grade 8 Technology-Technical Knowledge Connecting to a Network</p>	<p>K to the 8th Power website (www.kto8.com) Computer</p>	<p>K to the 8th Power website</p>
<p>Know how to evaluate, select, and use appropriate technology tools and information resources to plan, design, develop, and communicate content information, appropriately addressing the target audience and providing accurate citations for sources.</p>	<p>Technology—Technical Knowledge</p>	<p>K to the 8th Power website Computer</p>	<p>K to the 8th Power website Teacher observations</p>
<p>Know how to identify appropriate file formats for a variety of applications and apply utility programs to convert formats, as necessary, for effective use in Web, video,</p>	<p>Grade 8 Technology MS Word MS Excel MS PowerPoint</p>	<p>K to the 8th Power website Computer Word Excel Powerpoint</p>	<p>Kto8 website Successful completion of a project effectively using word processing, database, publication and spreadsheet applications. Use of video and audio, graphics should also be</p>

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Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>audio, graphic, presentation, word-processing, database, publication, and spreadsheet applications.</p> <p>Know how to use the electronic dictionary, thesaurus, spelling and grammar checker, and editing features to maximize accuracy in development of technology-produced products.</p> <p>Examine changes in hardware and software systems over time, and identify how changes affect business, industry, education, government, and individual users.</p>	<p>Grade 8 Technology-Word Processing</p> <p>Discussion</p>	<p>K to the 8th Power website Computer MS Word</p> <p>Teacher research</p>	<p>used.</p> <p>K to the 8th Power website</p> <p>Teacher observation</p>

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Standard: Basic Operations and Concepts

Goal: Students are proficient in the use of technology. (information management)

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Identify strategies and procedures for efficient and effective management and maintenance of computer files in a variety of different media and formats on a hard drive and network.</p>	<p>Grade 8 Technology- Computer Skills Using Computers, Part 3</p>	<p>K to the 8th Power website Computers</p>	<p>K to the 8th Power website</p>

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Standard: Basic Operations and Concepts

Goal: Students are proficient in the use of technology. (terminology and problem solving)

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Know how to solve basic hardware, software, and network problems that occur during everyday use; protect computers, networks, and information from viruses, vandalism, and unauthorized use, and access online help and user documentation to solve common hardware, software, and network problems.</p>	<p>Grade 8 Technology- Technical Knowledge Connecting to a Network</p> <p>Avoiding Computer Trouble— Virus Protection</p>	<p>K to the 8th Power website Computer</p>	<p>K to the 8th Power website</p>

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Standard: Social, Ethical and Human Issues

Goal: Students understand the ethical, cultural, and societal issues related to technology.

Knowledge & Skills	Activities	Resources & Materials	Assessments
Identify legal and ethical issue related to use of information and communication technology, recognize consequences of its misuse, and predict possible long-range effects of ethical and unethical use of technology on culture and society.	Discussion	Teacher Readings/research	Observation

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Standard: Social, Ethical and Human Issues

Goal: Students practice responsible use of technology systems, information and software.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Discuss issues related to acceptable and responsible use of information and communication technology (e.g., privacy, security, copyright, file sharing, plagiarism), analyze the consequences and costs of unethical use of information and computer technology e.g., hacking, spamming, consumer fraud, virus setting, intrusion), and identify methods for addressing these risks.</p>	<p>Grade 8 Technology - Technical Knowledge Copyright</p> <p>Grade 8 Technology- Computer Skills Using Computers</p>	<p>K to the 8th Power website Computer</p>	<p>K to the 8th Power website</p>

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Standard: Social, Ethical and Human Issues

Goal: Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Examine issues related to computer etiquette and discuss means for encouraging more effective use of technology to support effective communication, collaboration, personal productivity, lifelong learning, and assistance for individuals with disabilities.</p>	<p>Grade 8 Technology - Technical Knowledge Copyright</p>	<p>K to the 8th Power website Computer Web browser</p>	<p>K to the 8th Power website</p>

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Standard: Technology Productivity Tools

Goal: Students use technology tools to enhance learning, increase productivity, and promote creativity.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Describe and apply common software features (e.g., spellchecker and thesaurus to ensure accuracy of word processing, documents; formulas and chart generation in spreadsheets, and insertion of pictures, movies, sound, and charts in presentation software: to enhance communication to an audience, promote productivity, and support creativity.</p>	<p>Grade 8 Technology – Word Processing MS Word, Levels 1-4</p> <p>Grade 8 Technology- Spreadsheet MS Excel, Levels 1-2</p> <p>Grade 8 Technology - Presentation MS PowerPoint, Levels 1-4</p>	<p>K to the 8th Power website Computer Word Excel PowerPoint</p>	<p>K to the 8th Power website</p>

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Standard: Technology Productivity Tools

Goal: Student use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Describe how to use online environments or other collaborative tools to facilitate design and development of materials, models, publications, and presentations; they know how to apply utilities for editing pictures, images, and charts.</p>	<p>Grade 8 Technology – Presentation MS PowerPoint, Levels 1-4</p>	<p>K to the 8th Power website Computer PowerPoint</p>	<p>K to the 8th Power website</p>

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Standard: Technology Communications Tools

Goal: Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Know how to use telecommunications tools (e.g., e-mail, discussion groups, and online collaborative environments) to exchange data collected and learn curricular concepts by communicating with peers, experts, and other audiences.</p>	<p>Grade 8 Technology – Business Development Using Email to Get Feedback, Part 2</p> <p>Grade 8 Technology - Internet Sending & Receiving Email</p>	<p>K to the 8th Power website Computer Web browser Word</p>	<p>K to the 8th Power website</p>

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Standard: Technology Communication Tools

Goal: Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Know how to use a variety of media and formats to design, develop, publish, and present products (e.g., presentations, newsletters, Web pages) that effectively communicate information and ideas about the curriculum to multiple audiences.</p>	<p>Grade 8 Technology – Web Programming HTML—Formatting Web Page Text</p>	<p>K to the 8th Power website Notepad Text Editor</p>	<p>K to the 8th Power website</p>

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Standard: Technology Research Tools

Goal: Students use technology to locate, evaluate, and collect information from a variety of sources.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Know how to conduct an advanced search using Boolean logic and other sophisticated search functions; they know how to evaluate information from a variety of sources for accuracy, bias, appropriateness, and comprehensiveness.</p>	<p>Grade 8 Technology – Internet Advanced Internet Searching</p>	<p>K to the 8th Power website Computer Web browser</p>	<p>K to the 8th Power website</p>

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Standard: Technology Research Tools

Goal: Students use technology to process data and report results.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Know how to identify and implement procedures for designing, creating, and populating a database, and, in performing queries, to process data and report results relevant to an assigned hypothesis or research question.</p>	<p>Grade 8 Technology –DataBase Databases, Levels 1-5</p>	<p>K to the 8th Power website Computer Web browser Access</p>	<p>K to the 8th Power website</p>

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Standard: Technology Research Tools

Goal: Students evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Know how to select and use information and communication technology tools and resources to collect and analyze information and report results on an assigned hypothesis or research question.</p>	<p>Grade 8 Technology –DataBase Databases, Levels 1-5</p>	<p>K to the 8th Power website Computer Web browser Access</p>	<p>K to the 8th Power website</p>

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Standard: Technology Problem-Solving and Decision-Making Tools

Goal: Students use technology resources for solving problems and making informed decisions.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Identify two or more types of information and communication technology tools or resources that can be used for informing and solving a specific problem and presenting results, or for identifying and resenting an informed rationale for a decision.</p>	<p>Grade 8 Technology –DataBase Databases, Levels 1-5</p>	<p>K to the 8th Power website Computer Web browser Access</p>	<p>K to the 8th Power website</p>

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Standard: Technology Problem-Solving and Decision-Making Tools

Goal: Students employ technology in the development of strategies for solving problems in the real world.

Knowledge & Skills	Activities	Resources & Materials	Assessments
<p>Describe the information and communication technology tools they might use to compare information from different sources, analyze findings, determine the need for additional information, and draw conclusions for addressing real-world problems.</p>	<p>Grade 8 Technology –DataBase Databases, Levels 1-5</p>	<p>K to the 8th Power website Computer Web browser Access</p>	<p>K to the 8th Power website</p>