Jefferson County Student Technology Standards
5th Grade (Basic)

Notes on standards
- Standard 1 (Appropriate and responsible use of tools) and Standard 2 (Information Literacy) are intrinsically linked. It is impossible to work with technology and resources without incorporating the principles of each. There is a tremendous overlap, so schools should teach the concepts together.

1. Appropriate and responsible use of tools

- Students practice responsible use of technology systems, information and software.
- Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits and productivity.

General Indicators	Examples of Performance
5.1.1 Understand common uses of technology in daily life and the advantages and disadvantages those uses provide.	Students will be aware of and discuss technologies' connections with: • problem solving • organizing, preparing, and presenting information • locating information • homes, schools, and businesses • privacy issues • public safety • automobile computer diagnostic equipment • grocery store scanners, checkout • stoplights • cable TV and satellite dishes • modems
5.1.2 Understand basic issues related to responsible use of technology and information. Act in accordance with basic principles/rules of responsible use and know the personal consequences of inappropriate use.	Students learn and employ strategies for: • evaluating information to separate fact, opinion, and point of view • determining accuracy, relevance and comprehensiveness • identifying inaccurate and misleading information • presenting information to others accurately Students: • create a personal set of rules dealing with responsible use • collaborate with their class to create a class set of rules dealing with responsible use of technology and information • report on plagiarism and the new electronic age

General Indicators	Examples of Performance
5.1.3 Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems.	Students use: • simulation software • calculators • data collection probes • videos • multimedia authoring software • charting software to display the results of a survey • spreadsheets to analyze data • multimedia authoring or presentation software to communicate their ideas • databases to organize their data

2. Information Literacy

• Students demonstrate ethical use of information and information technologies.
• Students demonstrate how to use and construct meaning from the information resources available to them.
• Students have the ability to access information from a variety of resources to support research, lifelong learning, collaboration, personal pursuits and productivity.

General Indicators	Examples of Performance
5.2.1 Determine information needs, develop information-seeking strategies, locate information and acquire information.	Students discuss strategies for: • evaluating information to separate fact, opinion, and point of view • determining accuracy, relevance and comprehensiveness • identifying inaccurate and misleading information • presenting information to others accurately Students: • understand that copy and paste is a form of plagiarism
5.2.2 Evaluate the accuracy, relevance, appropriateness, comprehensiveness and bias of electronic information sources.	Students use or develop instruments to evaluate web sites to determine: • if the information is consistent with generally accepted facts • if the author has credibility • if the content is relevant to the assignment at hand • if the content is appropriate for their use

General Indicators	Examples of Performance
5.2.3 Practice ethical usage of information and information technologies. Act in accordance with the principal of intellectual freedom.	Students use or develop guidelines concerning: • intellectual property • ethical use of information
5.2.4 Organize and present information from technology resources using technology tools.	Students develop age appropriate: • multimedia presentations • documents • music • videos
Most of this is lifted directly from the Information Literacy standards, with emphasis on knowledge seeking and responsible users.	

3. Communication

- Students use communications to collaborate, publish and interact with peers, experts, and other audiences.
- Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

General Indicators	Examples of Performance
5.3.1 Make use of communications and online resources to participate in collaborative problem-solving activities for developing solutions or products for audiences inside and outside the classroom.	Students use: • e-mail • moderated chat • simulation software • calculators • data collection probes • videos • multimedia authoring software Students demonstrate age-appropriate proficiency in: • collaboration • problem solving • downloading of appropriate files/content
5.3.2 Practice efficient and effective communications to access remote information, communicate with others in support of direct and independent learning and pursue personal interests.	Students use: • e-mail • online discussions • web environments • moderated discussion forums • moderated chat • video/audio conferencing

4. Technology resources and productivity tools

- Students use technology resources and tools to enhance learning, increase productivity and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, preparing publications and producing other creative works.

General Indicators	Examples of Performance
5.4.1 Employ general-purpose productivity tools and peripherals to enhance learning, support personal productivity, remediate skill deficits and facilitate learning throughout the curriculum.	Students use: • a spreadsheet to enter data and create a graph • a database to enter data and retrieve information • word processing tools (such as spell checking) in editing and revising to support writing

General Indicators	Examples of Performance
5.4.2 Utilize technology tools for individual and collaborative writing, communication, and publishing activities to create products for audiences inside and outside the classroom.	Students use: • a scanner or digital camera to incorporate art in a digital format • text or images to illustrate a concept • edit and format functions • drawing tools for creative expression • multimedia tools • web tools • digital imaging • word processing • presentation tools
5.4.3 Use technology resources for self-directed learning and extended learning activities.	Students use: • electronic card catalogs • online experts and resources • digital images • drawing and writing tools • simulation software • calculators • data collection probes • multimedia authoring software

5. Technology operations

- Students demonstrate a sound understanding of the nature and operation of technology systems.
- Students are proficient in the use of technology.

General Indicators	Examples of Performance
5.5.1 Utilize and understand appropriate storage devices.	Students use: flash drives • hard drives • network devices • other external devices
5.5.2 Operate input and output devices to successfully operate computers and other hardware devices.	Students use: • CD-ROMs • scanners • projection devices • calculators • audio/video recorders and players • digital cameras • MIDI devices