Educational Technology and Library Media Learning Expectations 6-12

Basic Operations
Literature Appreciation
Research Skills
Processing and Sharing
Media Literacy
Digital Literacy and Citizenship

Introduction

The Information, Communication, Technology Services (ICTS) department is a collaboration among Library Media, Educational Technology, Media Arts, Web Services, and Technical Services divisions. This department strives to support administration and teachers; inform parents; and to prepare students for lifelong learning, informed decision-making, a love of reading, and the use of information and communication technologies.

The following document outlines six categories of learning expectations that are essential skills to prepare students for life-long learning, informed decision-making, a love of reading, and the responsible and collaborative use of information and communication technologies. These skills should be integrated into all curricula areas with the goal of students applying them in all areas of their life.

Basic Operations

Students are expected to know how to identify and operate various technology devices and their peripherals, and how to properly maintain and care for technology. Similarly, students are expected to know the basic operations relevant to library use, including navigating the space and accessing the resources.

By the end of 8th grade, students will be able to:

Technology Devices
- Select and use applications appropriately to store, access, and share information
- Adopt new technologies by applying previous knowledge and skills
- Demonstrate independent problem solving with hardware and software
- Use intermediate features of word processors, spreadsheets, and databases to effectively and efficiently access and display information (e.g. endnotes, footers, tabs, bullets, formulas and functions)
- Appropriately select and move between different file types as needed

District Print & Online Resources
- Access and use the library online catalog to locate print, audio, and ebook resources.
- Locate and search the library research databases.
- Access and utilize reading resource websites linked to the library webpages.

By the end of 12th grade, students will be able to:

Technology Devices
- Explain and use effective storage and backup strategies
- Identify and assess the capabilities and limitations of emerging technologies
- Use advanced features of word processors to improve the appearance and accessibility of information (e.g. columns, templates, and styles)

District Print & Online Resources
- Access and use the library online catalog to locate print, audio, and ebook resources.
- Locate and search the library research databases using the advanced searching options.
- Access and utilize recommended websites linked by subject on the library webpages.
- Access and utilize reading resource websites linked to the library webpages.

Literature Appreciation

Students are able to broaden their experience and enjoyment of literature in multiple formats, and make wide-ranging reading choices independently.

By the end of 8th grade, students will be able to:

- Read and be able to identify some of the major authors of fiction, poetry, biography, and informational books
- Read books written from different ethnic and cultural viewpoints
- Use a variety of sources to guide reading choices
- Participate in book discussion groups and reading incentive programs
- Share reading experiences in a variety of formats
- Read and comprehend challenging literature and literary nonfiction
- Read and listen to books independently for pleasure and personal growth

By the end of 12th grade, students will be able to:

- Broaden their enjoyment of literature by reading from a wide selection of literature to challenge their reading interests and abilities
- Develop a greater awareness of literary choices by recognizing a range and selection of authors, genres, and literary styles
- Use a variety of sources to guide reading choices
- Use literary criticism to inform and guide analysis of texts
- Develop their ability to assess and share literature by summarizing and reviewing books for the purpose of sharing and encouraging others to read
- Read and listen to books independently for pleasure, personal growth, and college and career readiness

Research Skills

Students will be able to ethically use multiple literacies (digital, visual, textual, and technological) to plan, gather, evaluate, organize, synthesize, use, and share information. Students must be taught to seek diverse perspectives when gathering and using information.

By the end of 8th grade, students will be able to:

- Conduct short inquiry-driven research projects, using the 6-8 Grade Step-by-Step Research Checklist.
- Generate a research question and revise as needed to arrive at a manageable topic for inquiry.
- Explain and demonstrate effective advanced online searching and browsing strategies (e.g. Boolean logic operators, search results structure)
- Locate, organize, analyze, evaluate, synthesize and ethically use information from a variety of sources and media
- Define plagiarism, and discuss the possible consequences of plagiarizing the work of others. Create a Works Cited page, using MLA format.

By the end of 12th grade, students will be able to:

- Devise and demonstrate strategies for efficiently collecting and organizing information from a variety of sources
- Define plagiarism, and discuss the possible consequences of plagiarizing the work of others
- Independently follow CRLS Basic Steps in the Research Process
- Synthesize multiple appropriate and reliable sources on a subject, demonstrating a broad understanding of the subject under investigation.
- Make sense of information gathered from diverse sources by identifying main and supporting ideas, misconceptions, conflicting information, and point of view or bias.(AASL 1.1.7)
- Demonstrate adaptability by changing the inquiry focus, questions, resources, or strategies when necessary to achieve success. (AASL 1.2.5)
- Develop claims and counterclaims fairly and thoroughly. (CCSS 9-12 W.1.b)
- Follow formal guidelines for the appropriate citation format (MLA, APA, Chicago Style) for the discipline.

Processing & Sharing

Students will be able to use technology to communicate ideas and share their knowledge with others both within and outside the school.

By the end of 8th grade, students will be able to:

- Organize and present data using spreadsheets, charts, and graphs
- Independently plan, design, and develop a multimedia product to present information, effectively citing sources
- Collaborate and publish with peers, experts, and others by employing a variety of digital environments and media

By the end of 12th grade, students will be able to:

- Use a variety of applications to plan, create, and edit information for specific purposes and audiences
- Collaborate and publish with peers, experts, and others by employing a variety of digital environments and media
- Independently identify an opportunity to plan and implement a collaborative project using technology

Media Literacy

Students in the 21st century have a practically limitless ability to access and create media and information. Our goal is for students to learn and understand various multimedia, information, and communication technologies and to use them appropriately to create and communicate.

We also want students to participate in online communities to share and build on each other's experience and knowledge. Ultimately, we want students to become creative, responsible consumers and producers of information and media.

By the end of 8th grade, students will be able to:

- Identify all types of media
- Analyze and explain the positive and negative effects of media messages; how and why media can be used to distort, exaggerate, and misrepresent information
- Explain copyright law as it relates to intellectual property and fair use guidelines, and the impact violation has on an individual and society
- Demonstrate how the use of various techniques and effects (e.g. editing, music, color) can be used to convey meaning in media by creating an original piece of media

By the end of 12th grade, students will be able to:

- Evaluate the authenticity, accuracy, appropriateness, and bias of digital content
- Analyze the values and points of view that are presented in media messages and be able to share their messages through the creation of original media
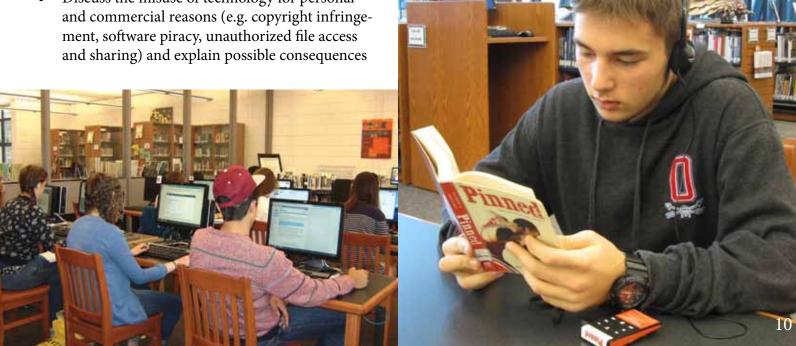
Digital Literacy and Citizenship

In the increasingly digitally connected world, students will need to navigate and utilize the Internet responsibly and safely.

By the end of 8th grade, students will be able to:

- Demonstrate compliance with the district Acceptable Use Policy
- Use a variety of online communication tools appropriately (e.g. messaging, blogs, discussion forums, etc.)
- Understand and apply security measures for online safety and privacy (e.g. password, firewall, spam)
- Understand and use assistive technology to make information accessible as needed
- Identify examples of cyberbullying and explain the impact on the individual and society
- Discuss the misuse of technology for personal and commercial reasons (e.g. copyright infringement, software piracy, unauthorized file access and sharing) and explain possible consequences

By the end of 12th grade, students will be able to:

- Demonstrate compliance with the district AUP
- Use a variety of online communication tools appropriately (e.g. messaging, blogs, discussion forums, etc.)
- Discuss the misuse of technology for personal and commercial reasons (e.g. copyright infringement, software piracy, unauthorized file access and sharing) and explain possible consequences
- Understand the opportunities provided by online learning and how they relate to one's own learning style

Resources

American Association of School Librarians

Partnership for 21st Century Skills

Common Core Initiative

Massachusetts Department of Elementary & Secondary Education Curriculum Frameworks

International Society for Technology in Education NETS for Students

English Language Arts & Mathematics Curriculum: Incorporating the Common Core Standards.

Big6 Skills ™

Massachusetts Children's Book Award (MCBA)

Common Sense Media

NetSmartz

CPS
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