

COMPUTER/TECHNOLOGY SKILLS

Societal/Ethical Issues

- Recognize and use concepts related to the protection of computers, networks and information (virus protection, network security, passwords, firewalls and privacy laws).
- Recognize and use appropriate behavior related to computers, networks and digital information (security, privacy, passwords and personal information), and identify possible consequences of unethical behavior.
- Recognize and discuss how Copyright Laws protect ownership of intellectual property and discuss consequences of misuse.
- Recognize and discuss methods/tools used to protect computers, networks and information from vandalism and intrusion.

Database

- Use knowledge of database concepts and functions to find information in prepared databases and describe strategies used.
- Create/modify simple databases to enter/edit, collect, organize and display content data, citing resources.
- Select and use search strategies with two or more criteria in prepared databases.



Spreadsheet

- Modify/create and use spreadsheets to enter/edit, calculate (+, -, *, / and average), organize and display data.
- Modify/create and use spreadsheets concepts and functions (media, range and mode) with classroom data.
- Enter/edit data into a spreadsheet to test simple "what if..." statements to solve problems and make decisions.

Keyboard Utilization/Word Processing/Desktop Publishing

- Recognize and explain the advantages of using word processing.
- Identify, discuss and use WP/DTP menu/tool bar concepts (import, portrait, landscape, copy and paste) to create documents.
- Use proper keyboarding techniques to improve accuracy, speed and general efficiency in computer operations.



- Demonstrate knowledge of WP/DTP tools to develop documents, which include data imported from a spreadsheet/database.

Multimedia/Presentation

- Identify and discuss multimedia concepts (menu, branching, navigation, multimedia and design).
- Use student-generated rubrics to evaluate multimedia presentations for elements (organization, content, design, presentation and citation).

Telecommunications

- Recognize, discuss and use online concepts (search strategies, citing resources, filters and AUP/IUP).
- Select, discuss and evaluate digital resources and information for content, accuracy and usefulness, citing resources.
- Model and explain the importance of ethical, responsible and safe behavior when using networked digital information (Internet, mobile phone, wireless and LAN).
- Plan, discuss and use search strategies with two or more criteria to find information for assignments.



CURRICULUM AND INSTRUCTION

Wayne County Public Schools does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities.

LEARNING OUTCOMES FOR FIFTH GRADE



Wayne County Public Schools

ENGLISH/LANGUAGE ARTS

Word Recognition/Vocabulary

- Expand and refine vocabulary through knowledge of words, prefixes, suffixes and word origins to decode and comprehend text.
- Use word reference materials to identify and comprehend unknown words.
- Read independently daily from self-selected materials to build background knowledge, increase fluency and expand and refine vocabulary.



Comprehension

- Interact with the text before, during and after reading by setting a purpose for reading, making predictions, formulating questions, locating relevant information and making connections by drawing on personal, literary and cultural understandings.
- Read aloud grade-appropriate text with fluency, comprehension, expression, personal style and purpose.
- Identify elements of fiction and nonfiction and support by referencing the text.

Connections

- Make informed judgments about stereotyping, bias, media techniques and propaganda.
- Make connections between texts by recognizing comparisons and contrasts based on a common lesson, message or theme.
- Cite supporting evidence in the text(s) to justify evaluation of events and characters from different selections.

Products

- Explore technology as a tool to enhance and/or publish a written product.
- Focus revision on target elements by (1) rearranging text for clarity, (2) developing a lead, characters or mood, (3) improving word choice, (4) creating simple and/or complex sentences for clarity.

MATHEMATICS

Number and Operations

- Read, write, model and compute with rational numbers from 0.001 to 999,999.
- Build an understanding of place value (thousandths through hundred thousands).
- Develop fluency with addition and subtraction of non-negative rational numbers.
- Develop flexibility in solving problems through the use of mental computation, estimation and calculators.

Measurement

- Identify, estimate and measure angles of plane figures.
- Estimate the measure of an object in one system given the measure of that object in another system.

Geometry

- Make and test conjectures about polygrams involving interior angles, lengths of sides and diagonals, and parallelism and perpendicularity of sides and diagonals.
- Classify plane figures according to types of symmetry (line, rotational).
- Solve problems involving the properties and relationships of polygons.

Data Analysis and Probability

- Collect, organize, analyze and display data using bar graphs and stem-and-leaf plots.
- Use median, range and mode to solve problems from a single set or multiple sets of data.

Algebra

- Solve grade-level word problems (including one-step equations and inequalities) using appropriate technology.
- Identify and analyze situations with constant or varying rates of change.



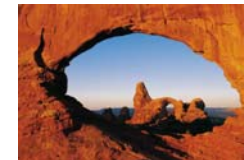
SCIENCE

Interdependence of Plants and Animals

- Identify and analyze the functions of organisms within the population of the ecosystem.
- Evaluate and explain ways that humans affect ecosystems.

Landforms

- Investigate forces and the role of the water cycle in changing landforms.
- Discuss erosion and its importance in creating landforms.



Weather and Climate

- Investigate the water cycle including the processes of evaporation, condensation, precipitation and run-off.
- Discuss how predictable weather patterns affect temperature, wind direction and speed, precipitation, cloud cover and air pressure.

Forces and Motion in Technological Designs

- Investigate the nature of forces and motion.
- Examine force, friction, inertia and momentum and how they affect motion.

SOCIAL STUDIES

Geography

- Investigate the physical and cultural characteristics of regions of North America.

Individual/Groups

- Analyze political and social institutions in North America and examine their impact.

Culture/Diversity

- Examine the roles that various ethnic groups have played in the development of North American countries.

History

- Trace key events in United States history and describe how each affected the land and people of North America.

Economics

- Evaluate decisions made by North American countries concerning allocation and use of economic resources.



Technology

- Compare and contrast technological change and its impact in North American countries.