

Computer and Technology Skills

Societal/Ethical Issues

- Recognize changes in information technologies and how they impact our lives.
- Discuss how Copyright Laws protect ownership of intellectual property and the consequences of misuse.
- Recognize and use multi-tasking processes.
- Explain how and why computers, networks and information must be protected from intrusion, viruses and vandalism.
- Recognize and model ethical use of personal and copyrighted digital materials including images, music, video, content and language.
- Recognize and model correctly formatted citations for copyrighted materials and adhere to Fair Use Guidelines.
- Identify technology skills needed in the workplace including recognizing minor hardware and software issues.
- Select and use responsibly a variety of computing devices (probeware, handhelds, digital cameras and scanners) to collect, analyze and present content area information.



Databases

- Recognize how and why databases are used to collect, organize and analyze information.
- Cite sources of information used in content area databases.
- Plan and develop database reports to organize, explain and display findings in content areas.
- Develop and use search strategies with two or more criteria to solve problems and make decisions.
- Use database sort and search/filter strategies to organize, analyze, interpret and evaluate findings in content areas, citing sources.

Spreadsheets

- Recognize uses of spreadsheets to calculate, graph and present data in a variety of settings.
- Enter/edit data and use spreadsheet features and functions to project outcomes.
- Select and use chart/graph functions to analyze and display findings in content projects, citing data sources.

- Modify/create spreadsheets to calculate and graph data, solve problems, make decisions, support and display findings in content area projects.

Keyboarding/Word Processing/Desktop Publishing

- Use proper keyboarding techniques to improve accuracy, speed and general efficiency in computer operation.
- Use WP/DTP features and functions to design, format and publish for a specific audience and purpose.

Multimedia/Presentation

- Demonstrate knowledge of the advantages/disadvantages of using multimedia to develop, publish and present information to a variety of audiences.
- Use menu/tool bar features to edit, modify and revise multimedia projects.
- Use rubrics to evaluate multimedia presentations for elements such as content and design.

Telecommunications/Internet

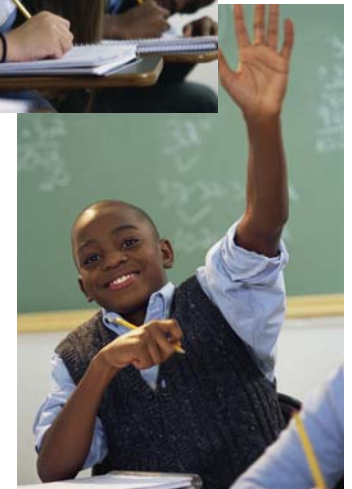
- Select and justify the use of appropriate online collaborative tools such as surveys, email, discussion forums and web pages to develop content area presentations.
- Plan, collect, evaluate, interpret and use information from a variety of resources to develop assignments about social studies areas.



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 SIXTH GRADE



ENGLISH/ LANGUAGE ARTS

Expressive

- Explore narrative fictional or autobiographical accounts.
- Explore expressive materials.
- Interact in groups.
- Use reflection.

Informational

- Explore information materials that are read, heard and/or viewed.
- Use multiple sources to develop informational materials.



Argumentative

- Examine the foundation of argument.
- Explore argumentative works that are read, heard and/or viewed.
- Explore the problem-solution process.
- Study arguments that evaluate.

Critical

- Use critical thinking skills and evaluate print and non-print materials.
- Determine the purpose of the author or creator.
- Develop (with teacher assistance) and apply appropriate criteria to evaluate quality.
- Recognize and develop the stance of a critic.
- Increase fluency, comprehension and insight through a meaningful and comprehensive literacy program.
- Study the characteristics of literacy genres (fiction, non-fiction, drama and poetry).

Grammar/Language Usage

- Apply conventions of grammar and language usage.
- Demonstrate an understanding of conventional written and spoken expression.
- Identify and edit errors in spoken and written English.

MATHEMATICS

Number and Operations

- Develop number sense for negative rational numbers and develop meaning of percents.

- Develop fluency in addition, subtraction, multiplication and division of non-negative rational numbers.
- Write very large and very small numbers using exponential, scientific and calculator notation.
- Solve problems that are relevant and authentic by using appropriate technology.

Measurement

- Use appropriate tools to estimate and measure length, perimeter, area, angles, weight and mass of two and three dimensional figures.
- Solve problems involving perimeter, circumference and area of plane figures.

Geometry

- Identify and describe the intersection of figures in a plane.
- Identify and determine the relationships among the radius, diameter, chord, center and circumference of a circle and describe the intersection of figures in a plane.
- Transform figures and solve problems involving geometric figures in the coordinate plane.

Data Analysis and Probability

- Develop fluency with counting strategies to determine the sample space for an event and use a sample space to determine the probability of an event.
- Determine and compare experimental and theoretical probabilities for simple and compound events and for independent and dependent events.
- Design and conduct experiments to solve problems.

Algebra

- Simplify, use and evaluate algebraic expressions.
- Model and solve problems involving rates of change and ratios.

SCIENCE

Scientific Inquiry

- Design and conduct investigations.

Technological Design

- Explore the many definitions of technological design, use information systems, evaluate technological designs and use their tenets to make informed consumer decisions.

Lithosphere

- Build an understanding of the geological cycles, forces, processes and agents which shape the lithosphere.



Population Dynamics

- Describe organism interaction, habitat, over population, diversity and human population growth.

Energy Transfer and/or Transformation

- Analyze heat flow, sound, light and the Law of Conservation of Energy.

Cycling of Matter

- Examine and evaluate the flow of energy, decomposers and photosynthesis.

Solar System

- Analyze and describe the cycles of the solar system, planets, gravitation and space exploration.

SOCIAL STUDIES

Geographic Relationships

- Use the five themes of geography and geographic tools.

Historic Perspectives

- Assess the relationship between physical environment and cultural characteristics.
- Analyze the impact of interactions.
- Identify significant patterns in the movement of people, goods and ideas.

Economics and Development

- Evaluate the ways people of South America and Europe make decisions.
- Recognize the relationship between historical events and contemporary issues.



Government and Active Citizenship

- Assess connections between historical events and contemporary issues.
- Assess the influence and contribution of individuals and cultural groups.

Global Connections

- Analyze the different forms of government.
- Compare rights and civic responsibilities in political structures.

Technological Influence and Society

- Recognize common characteristics of different cultures.

Individual Identity and Development

- Assess the influence of major religious, ethical beliefs and values on culture.

Cultures and Diversity

- Describe historic, economic and cultural connections.