Computer and Technology Skills

Societal/Ethical Issues

- Demonstrate and visually represent knowledge of changes in information technologies and the effect those changes have on North Carolina and society.
- Model ethical behavior relating to security, privacy and personal information and recognize possible consequences of misuse.
- Recognize how Copyright Laws protect ownership of intellectual property and identify the consequences of misuse.
- Demonstrate knowledge of Copyright Law and Fair Use Guidelines for the use of all technological resources.
- Recognize and model correctly formatted citations for copyrighted materials and adhere to Fair Use Guidelines.
- Investigate computer/technology-related careers in North Carolina.
- Recognize strategies for identifying, solving and preventing minor hardware and software problems.
- Select and use a variety of technology tools to collect, analyze and present information.

Databases

- Demonstrate knowledge of how databases are used in an information-intensive society.
- Explain strategies used to organize, analyze and report information in content area assignments.
- Modify/create and use databases to organize, analyze, interpret and report data.
- Select and use appropriate database features and functions to collect and organize information to solve problems in content areas.

Spreadsheets

- Investigate how spreadsheets are used in a variety of settings.
- Select and use spreadsheet formulas and functions to solve problems, calculate and present findings for content area assignments.
- Create/modify spreadsheets to analyze and interpret information, test "what if…" statements and make decisions in content areas.

Keyboard Utilization/Word Processing/Desktop Publishing

- Demonstrate knowledge of the advantages/ disadvantages of using word processing to develop, publish and present information to a variety of audiences.
- Use proper keyboarding techniques to improve accuracy, speed and general efficiency in computer operation.
- Select and use WP/DTP features/functions to develop, edit, revise and publish documents and assignments.
- Develop and use rubrics to evaluate the quality of published documents and projects.

Multimedia/Presentations

- Demonstrate knowledge of multimedia tools and concepts used by media to entertain, sell and influence ideas and opinions.
- Plan, design and develop a multimedia product using data to present content information.
- Create and use rubrics (content, design, appropriateness for audience and ethical use of resources) to evaluate multimedia presentations.

Telecommunications/Internet

- Demonstrate responsible, safe and ethical use of networked digital information.
- Select and use appropriate collaborative tools to survey, collect, share and communicate information in content areas.
- Plan, select, evaluate, interpret and use a variety of digital resources to develop assignments about North Carolina history.

Wayne County Public Schools
opening minds…

CURRICULUM AND INSTRUCTION

Learning Outcomes For Eighth Grade

Wayne County Public Schools

ENGLISH/LANGUAUGE ARTS

Expressive

- Use language to express individual perspectives through analysis of personal, social, cultural and historical issues.
- Narrate a personal account.
- Analyze expressive materials that are read, heard and/or viewed.
- Interact in group activities or seminars.
- Use reflection.

Informational

- Use and evaluate information from a variety of sources.
- Analyze and evaluate informational materials that are read, heard and/or viewed.
- Use multiple sources of print and non-print information to explore and create research products in both written and presentational forms.

Argumentative

- Refine the understanding and use of argument.
- Explore and analyze argumentative works that are read, heard and/or viewed.
- Explore and analyze the use of the problem-solution process.
- Evaluate and create arguments that persuade.

Critical

- Refine critical thinking skills and create criteria to evaluate print and non-print materials.
- Analyze the purpose of the author or creator and the impact of that purpose.
- Analyze and develop (with limited assistance) and apply criteria to evaluate.
- Use the stance of a critic.

Literacy

- Respond to various literary genres using interpretive and evaluative processes.
- Study the characteristics of literary genres (fiction, nonfiction, drama and poetry).
- Increase fluency, comprehension and insight through a meaningful and comprehensive literacy program.

Grammar/Language Usage

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

MATHEMATICS

Number and Operations

- Develop number sense for real numbers.
- Solve problems that are relevant and authentic by using appropriate technology.

Measurement

- Determine the effect on perimeter, area or volume when one or more dimensions of two and three dimensional figures are changed.
- Apply and use concepts of indirect measurement.

Geometry

- Represent problem situations with geometric models and solve problems by applying geometric properties and relationships, including the Pythagorean Theorem.
- Identify, predict and describe dilations in the coordinate plane.

Data Analysis and Probability

- Collect, organize, analyze and display data (including scatterplot) to solve problems.
- Approximate a line of best fit, explain the meaning of the line and make predictions for a given scatterplot.
- Identify misuses of statistics.

Algebra

- Develop an understanding of function, including relations: linear or nonlinear, slope and intercepts.
- Write an equation of a linear relationship given: two points: the slope and one point on the line or the slope and y-intercept.
- Solve problems using linear equations and inequalities.
- Solve equations using inverse relationships.

SCIENCE

Scientific Inquiry

- Design and conduct investigations.

Technological Design

- Explore varied definitions, identify needs, evaluate designs and apply to making consumer decisions.

Hydrosphere

- Analyze the properties of water, the structure of the hydrosphere, the interconnection of food webs, human impact and technological monitoring.

Chemistry

- Understand the chemical nature of natural and synthetic substances including classification, properties, changes and health.

Evidence of Evolution

- Interpret rocks, fossils and ice cores, correlate theories and processes, examine global impact and satellite imagery and maps.

Cell Theory

- Describe and understand animal cells, protists and cellular chemical processes.

Microbiology

- Investigate microbes, disease and biotechnology.

SOCIAL STUDIES

Geographic Relationships

- Analyze important geographic, political, economic and social aspects of life in the region to the Revolutionary Period.

Historical Perspectives

- Trace the causes and effects of the Revolutionary War.

Economics and Development

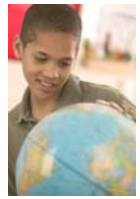
- Identify key events and evaluate.

Government and Active Citizenship

- Examine the causes, course, character and impact of the Civil War and Reconstruction.

Technological Influences and Society/Global Connections

- Evaluate the impact of political, economic, technological, social and political developments.
- Analyze the immediate and long-term effects of the Great Depression and World War II.



Individual Identity

- Analyze changes in North Carolina.

Cultures and Diversity

- Explore examples of opportunities for active citizenship, past and present.