

## Economics

- Assess how the state's natural resources are being used and analyze the relationship between government services and taxes.

## Technology

- Explain how technology has changed and influenced the movement of people, goods and ideas over time.

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## COMPUTER/TECHNOLOGY SKILLS

### Societal/Ethical Issues

- Recognize, discuss and use network concepts (stand alone, network, file server, LANs, network resources and non-networked computers).
- Recognize, discuss and use responsible, ethical and safe behaviors when using technology resources (AUP/IUP).
- Recognize that Copyright Laws protect creative work of individuals, groups and companies by citing sources.
- Select and use technology tools (probeware, digital camera and scanners) to collect, analyze and display information for assignments.



### Database

- Identify, discuss and visually represent how and why databases are used in NC.
- Sort and search/filter (two criteria) prepared databases to analyze/evaluate for information and use correct concepts to explain strategies.
- Discuss, plan and develop simple databases to enter/edit, collect, organize and display content data.

### Spreadsheet

- Identify, discuss and use spreadsheet concepts (cell, column, row, values, labels, graph and formulas).
- Enter/edit data in prepared spreadsheets to perform calculations using simple formulas (+, -, \* and /) and observe the changes that occur.
- Create and use spreadsheets and graphs to organize and calculate data, make predictions and solve problems.

### Keyboard Utilization/Word Processing/Desktop Publishing

- Use published documents (letter, memo and newspapers) to identify and discuss document design and layout.

- Identify, discuss and use concepts of menu/tool bar (print preview, WYSIWIG, page setup, Spell Check, thesaurus and print preview) in word processing documents.
- Recognize, discuss and use proper keyboarding techniques.
- Use word processing as a tool for writing, editing and publishing paragraphs, stories and assignments.

### Multimedia/Presentation

- Recognize, discuss and use multimedia concepts (navigation buttons, transition, links/hyperlinks and animation).
- Recognize, discuss and use Copyright and Fair Use Guidelines in multimedia projects by explaining selection and use of resources as a class.
- Storyboard and modify multimedia projects with menus, branching and/or multiple outcomes for assignments/projects.
- Recognize and use rubrics to evaluate elements (content, organization, appropriateness of materials and citations) of multimedia projects/products.

### Telecommunications

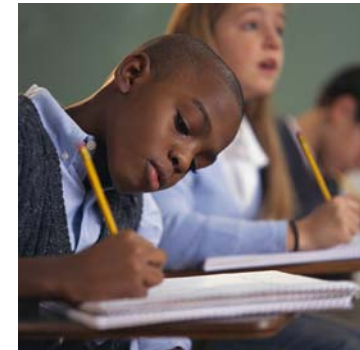
- Recognize and discuss telecommunications concepts (browser, keyword, URL, hypertext and www).
- Recognize, discuss and model responsible use and safe behavior using online resources.
- Identify, discuss and use online collaborative tools (email, surveys and videoconferencing) to collect data for assignments/projects.
- Plan and use search strategies with two or more criteria to find information online.
- Use a rubric as a guide to select and evaluate digital resources and information for content and usefulness in classroom 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 FOURTH GRADE



Wayne County Public Schools

## ENGLISH/LANGUAGE ARTS

### Word Recognition/Vocabulary

- Read independently daily from self-selected materials to increase fluency, expand vocabulary and build background knowledge.
- Infer word meanings from taught roots, prefixes and suffixes to decode words in text to assist comprehension.
- Use word reference materials to identify and comprehend unknown words.



### Comprehension

- Make generalizations, make inferences, draw conclusions and support by referencing the text.
- Summarize major points from fiction and non-fiction text(s) to clarify and retain information and ideas.
- Interact with the text before, during and after reading, listening and viewing by making predictions, locating relevant information, setting a purpose using prior knowledge and text information, formulating questions and making connections with previous experiences.

### Connections

- Respond to poetry, drama, fiction and nonfiction using critical, interpretive and evaluative processes.
- Integrate information from two or more sources to expand understanding of text.
- Analyze plots, events and characters from different selections and cite supporting evidence.

### Products

- Use planning strategies to generate topics and organize ideas.
- Compose multiple paragraphs that maintain focus with topic sentences, specific and relevant details, logical progression and concluding statement related to the topic.
- Focus revision on word choice, sequence, sentence patterns and transitional words.
- Read aloud grade-appropriate text with fluency, comprehension and expression demonstrating an awareness of volume and pace and/or word processing.

### Grammar and Language Conventions

- Use correct capitalization and punctuation.
- Proofread and correct most misspellings independently with reference to resources.
- Create legible documents through cursive handwriting and word processing.

- Compare multiple paragraphs with specific and relevant details, logical progression, coherence, elaboration, topic sentences and a concluding statement related to the topic.

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## MATHEMATICS

### Number and Operations

- Read, write, model and compute with rational numbers from 0.01 to 99,999.
- Build an understanding of place value (hundredths through ten thousands).
- Develop fluency for multiplying two-digit by two digit numbers and dividing three-digit by two-digit numbers.
- Investigate the relationships of fractions to include halves, fourths, eighths, thirds, sixths, twelfths, fifths, tenths, hundredths and mixed numbers.
- Develop fluency with addition and subtraction of non-negative rational numbers with like denominators, including decimals and fractions through hundredths.

### Measurement

- Use a variety of strategies to solve problems involving perimeters of plane figures and areas of rectangles.

### Geometry

- Describe the location of points, draw figures in the first quadrant of the coordinate system and use the concepts of parallelism and perpendicularity.
- Understand and demonstrate the results of a reflection (flip), translation (slide) and a rotation (turn) of a plane figure.



### Data Analysis and Probability

- Collect, organize, analyze and display data using line graphs and bar graphs to solve problems.
- Determine the mode, median and range of a set of data.

### Algebra

- Identify, describe and generalize relationships in which quantities change proportionality or change in one quantity relates to change in a second quantity.
- Translate among symbolic, numeric, verbal and pictorial representations of number relationships.
- Verify mathematical relationships using models, words, numbers and properties.
- Solve word problems appropriate to grade level.

## SCIENCE

### Animal Behavior and Adaptations

- Explore animal behavior, growth and adaptation.
- Discover how animal life is affected by living and nonliving things.

### Composition and Uses of Rocks and Minerals

- Investigate and build an understanding of the composition and uses of rocks and minerals.
- Identify and use models, maps and aerial photographs of different landforms.



### Magnetism and Electricity

- Explore the relationship of magnetism and electricity.
- Describe and identify materials that are conductors and nonconductors of electricity.

### How Food Provides Energy and Materials for Growth and Repair of the Body

- Determine that foods are made up of a variety of components and provide energy and nutrients for living organisms.

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## SOCIAL STUDIES

### Geography

- Apply the five themes of geography to North Carolina and its people.

### Cultures/Diversity

- Examine the importance of the role of ethnic groups and examine the multiple roles they have played in the development of North Carolina.

### History

- Describe the political and social history of colonial North Carolina and its impact on the state today.

### Individual/Groups

- Analyze social and political institutions in North Carolina and how they structure society, influence behavior and respond to human needs.

### Geographic Relationships

- Examine the impact and evaluate the significance of various cultural groups on North Carolina.

