

Marysville Exempted Village School District

Essential Learning

FOR

GRADE 4



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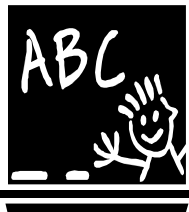


Marysville Exempted Village School District

1000 Edgewood Drive • Marysville, Ohio 43040 • 937-644-8105

Larry Zimmerman, Superintendent

WHAT YOUR CHILDREN WILL BE TAUGHT IN GRADE 4



This guide provides parents with a description of the concepts and skills children will be taught in Language Arts, Mathematics, Science, and Social Studies during the coming school year. An overview of Health is also included. The elementary program is supportive and nurturing and provides students with numerous opportunities to learn and grow. MEVSD teachers use instructional strategies to excite, motivate and challenge all students. Throughout elementary school, students learn to identify various sources of information and how to gather, record and organize it. They are introduced to and use many forms of writing for various purposes and audiences. Each learner uses technology tools as he/she engages in learning experiences across subject areas. A variety of assessment strategies are used to determine each student's progress and instructional needs. Your child's progress report will reflect his or her learning of these concepts and skills.

ENGLISH LANGUAGE ARTS

Reading—Vocabulary

- Use word clues to figure out meanings of words.
- Use clues to determine meanings of synonyms, antonyms, homophones, homonyms, and homographs.
- Determine suggested or implied meanings of words.
- Understand the use of similes and metaphors.
- Identify word origins, root words, prefixes and suffixes to determine meaning.
- Identify abbreviated words.
- Use dictionaries, glossaries and technology to find meanings to new words.

Reading Processes

- Establish reading for enjoyment, solving problems, understanding or interpreting.
- Make predictions and support your ideas using text materials.
- Compare and contrast information on a topic.
- Summarize important information from text.
- Infer meaning of what the author is saying in a text.
- Use graphic organizers to interpret information.
- Answer or ask “right there” (literal), “read between the lines” (inferential) and “on your own” (evaluative) questions.
- Skim, scan, read on or read again to adjust understanding of text.
- Choose independent materials to read based on interests, authors or recommendations.



Reading Applications: Informational, Technical and Persuasive Text

- Infer meaning of informational text from the title page, table of contents and headings.
- Summarize main ideas and supporting details in informational text.

- Use books, magazines, newspapers and online resources to locate important topic details.
- Identify cause and effect in informational text.
- Read maps, charts, graphs and diagrams to give information.
- Clarify steps in a set of directions or procedures.
- Distinguish between fact and opinion.
- Make generalizations.

Reading Applications: Literary Text

- Describe characters' thoughts, words and actions.
- Identify importance of setting, plot and major conflict to solve.
- Identify who is telling the story (point of view).
- Determine the main theme of the text.
- Identify and explain characteristics of literary forms such as poetry, fiction, nonfiction, drama, fables, fantasies and chapter books.
- Explain author's choice of words to make reading inviting.
- Identify figurative language such as idioms, similes and metaphors.

Writing Processes

- Read printed material and discuss writing ideas with others.
- State and develop a clear main idea.
- Identify an audience and purpose for writing.
- Plan and organize thoughts by brainstorming, listing or webbing for prewriting.
- Write on topic with clear beginning, middle and end.
- Use a variety of descriptive words in different sentence lengths.
- Write in paragraph form by indenting, stating topic sentence and giving supporting details.
- Complete a final draft using legible handwriting or word processor.
- Reread and discuss clarity of written piece.

- Use a checklist or rubric to proofread and edit writing.
- Use correct capitalization, punctuation, spelling and verb tense.
- Use reference materials (dictionary, thesaurus) to enrich word selection.
- Publish and display a clear written piece to share with others.

Writing Applications

- Write a story with a series of events including characters, setting and plot.
- Write a story from different points of view.
- Connect to a novel, story or poem by stating understanding and personal ideas.
- Write letters, thank you notes or invitations.
- Write informational reports including facts, important details and examples.
- Produce informal writings such as messages, journals, notes or poems.



Writing Conventions

- Write legibly in cursive, spacing letters, words and sentences.
- Spell high-frequency words correctly.
- Spell correct plural forms (regular and irregular), root words, suffixes and prefixes.
- Use commas, end marks, apostrophes and quotation marks correctly.
- Use capitalization at sentence beginnings and proper nouns.
- Use nouns, pronouns, conjunctions, interjections, adverbs, prepositions and adjectives.
- Use verbs in present, past and future tense.
- Use subjects and verbs that agree.

Research

- Gather information on a topic or question for research.
- Locate, collect and list information sources (library, online).
- Summarize important information.
- Create charts, tables or graphic organizers to display data.
- Communicate findings orally, visually and/or in writing.
- Dictionary Skills—selection of basic resources.

Communications

- Demonstrate active listening by asking questions, giving eye contact and responding.
- Give the main idea, supporting details and purpose of presentations.
- Distinguish between speaker ' s opinions and facts.

- Use appropriate English grammar with clear words and volume.
- Consider the audience.
- Give informational presentations in a logical, clear order with topic and details.
- Organize information with examples, diagrams, charts and/or technology.
- Use a variety of resources and state the references used.
- Deliver formal and informal personal experience presentations with details.

MATHEMATICS

Number Sense and Operations

- Add subtract, multiply and divide whole numbers.
- Identify and make equal forms of fractions and decimals.
- Use place value to understand whole numbers and decimals.
- Round whole numbers.
- Identify factors and multiples of whole numbers.
- Compare common fractions.
- Use the associative and distributive properties.
- Solve problems involving money.
- Estimate the answers to problems.
- Add and subtract decimals and fractions with like denominators.
- Solve multi-step problems.
- Use a variety of methods for solving problems (mental math, paper and pencil, calculators).
- Know multiplication and division facts 0-12.

Measurement

- Relate the number of units to the size of the measuring units.
- Demonstrate an understanding of perimeter, area and volume.
- Convert units within a measurement system (inches to feet, kilograms to grams).
- Solve multi-step problems involving measurement.

Geometry and Spatial Sense

- Demonstrate an understanding of intersecting, parallel and perpendicular lines.
- Describe, classify and compare two – and three-dimensional objects.
- Identify similarities and differences of four-sided shapes.
- Identify and define different kinds of triangles.
- Identify and plot ordered pairs.
- Predict and illustrate which figures could result from a flip, slide or turn of a shape.
- Use geometry to solve problems in other areas of math.



Patterns, Functions and Algebra

- Use models and words to describe and analyze problems.
- Make a table of values to solve problems.
- Describe number patterns with rules and variables.
- Write equations and inequalities.
- Describe how a change in one variable affects the value of other numbers.

Data Analysis and Probability

- Create a plan for collecting data and display that data in various ways.
- Interpret, compare and explain displayed data.
- Describe the characteristics of data, such as range, clumps and holes in the data.
- Determine the range, median and mode, and use these to compare sets of data.
- Conduct simple probability experiments and predict possible outcomes.
- Describe impossibility and certainty, and order events according to their likelihood to happen.

SCIENCE

Earth and Space

- Explain that air surrounds us, takes up space, moves around us as wind, and may be measured using barometric pressure.
- Identify how water exists in the air in different forms (e.g., in clouds, fog, rain, snow and hail).
- Investigate how water changes from one state to another (e.g., freezing, melting, condensation, evaporation).
- Describe weather by measurable quantities such as temperature, wind direction, wind speed, precipitation and barometric pressure.
- Record local weather information on a calendar or map and describe changes over a period of time (e.g., barometric pressure, temperature, precipitation symbols, cloud conditions).
- Trace how weather patterns generally move from west to east in the United States.
- Describe how wind, water and ice shape and reshape Earth's land surface by eroding rock and soil in some areas and depositing them in other areas producing characteristic landforms (e.g., dunes, deltas, glacial moraines).
- Identify and describe how freezing, thawing and plant growth reshape the land surface by causing the weathering of rock.
- Describe evidence of changes on Earth's surface in terms of slow processes (e.g., erosion, weathering, mountain building, deposition) and rapid processes (e.g., volcanic eruptions, earthquakes, landslides).



Life Sciences

- Compare the life cycles of different plants including germination, maturity, reproduction and death.
- Relate plant structures to their specific functions (e.g., growth, survival and reproduction).
- Classify common plants according to their characteristics (e.g., tree leaves, flowers, seeds, roots, stems).
- Observe and explore that fossils provide evidence about plants that lived long ago and the nature of the environment at that time.
- Describe how organisms interact with one another in various ways (e.g., many plants depend on animals for carrying pollen or dispersing seeds).
- Observe & understand that extinct organisms may resemble organisms that are alive today.

Physical Sciences

- Identify characteristics of a simple physical change (e.g., heating or cooling can change water from one state to another and the change is reversible).
- Identify characteristics of a simple chemical change. When a new material is made by combining two or more materials, it has chemical properties that are different from the original materials (e.g., burning paper, vinegar and baking soda).
- Describe objects by the properties of the materials from which they are made and that these properties can be used to separate or sort a group of objects (e.g., paper, glass, plastic, metal).
- Explain that matter has different states (e.g., solid, liquid, gas) and that each state has distinct physical properties.
- Compare ways the temperature of an object can be changed (e.g., rubbing, heating, bending of metal).

Science and Technology

- Explain how technology from different areas (e.g., transportation, communication, nutrition, healthcare, agriculture, entertainment, manufacturing) has improved human lives.
- Investigate how technology and inventions change to meet peoples' needs and wants.
- Describe, illustrate and evaluate the design process used to solve a problem (designing a simple machine).

Scientific Inquiry

- Select the appropriate tools and use relevant safety procedures to measure and record length, weight, volume, temperature and area in metric and English units.
- Analyze a series of events and/or simple daily or seasonal cycles, describe the patterns and infer the next likely occurrence.

- Develop, design and conduct safe, simple investigations or experiments to answer questions.
- Explain the importance of keeping conditions the same in an experiment.
- Describe how comparisons may not be fair when some conditions are not kept the same between experiments.
- Formulate instructions and communicate data in a manner that allows others to understand and repeat an investigation or experiment.



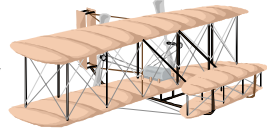
Scientific Ways of Knowing

- Differentiate fact from opinion and explain that scientists do not rely on claims or conclusions unless they are backed by observations that can be confirmed.
- Record the results and data from an investigation and make a reasonable explanation.
- Explain discrepancies in an investigation using evidence to support findings.
- Explain why keeping records of observations and investigations is important.

SOCIAL STUDIES

History

- Construct time lines with evenly spaced intervals for years, decades and centuries to show the order of significant events in Ohio history.
- Describe the earliest settlements in Ohio including those of prehistoric peoples.
- Explain the causes and effects of the frontier wars of the 1790s, including the Battle of Fallen Timbers, on American Indians in Ohio and the United States.
- Explain how Ohio progressed from territory to statehood, including the terms of the Northwest Ordinance.
- Explain how canals and railroads changed settlement patterns in Ohio and Ohio's economic and political status in the United States.
- Explain the importance of inventors such as the Wright Brothers, Charles Kettering, Garrett Morgan, Granville Woods and Thomas Edison.



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People In Societies

- Describe the cultural practices and products of various groups who have settled in Ohio over time including the Paleo Indians, Archaic Indians, Woodland Indians (Adena and Hopewell) and Late Prehistoric Indians (Fort Ancient), historic Indians of Ohio (Ottawa, Wyandot, Mingo, Miami, Shawnee and Delaware), European immigrants, Amish and Appalachian populations, African-Americans, and recent immigrants from Africa, Asia and Latin America.

- Describe the impact of the expansion of European settlements on American Indians in Ohio.
- Explain the reasons people came to Ohio including, opportunities in agriculture, mining and manufacturing, family ties and freedom from political and religious oppression.
- Cultural practices and products of groups who settled in Ohio.

Geography

- Use a linear scale to measure the distance between places on a map.
- Use cardinal and intermediate directions to describe the relative location of places.
- Describe the location of Ohio relative to other states and countries.
- Use maps to identify the location of major physical and human features of Ohio including, Lake Erie, rivers, plains, the Appalachian Plateau, bordering states, the capital city and other major cities.
- Describe and compare the landforms, climates, population, vegetation and economic characteristics of places and regions in Ohio.
- Identify manufacturing, agricultural, mining and forestry regions in Ohio.
- Explain how resources, transportation and location influenced the development of cities and industries in Ohio including major industries such as oil, steel, rubber and glass.
- Identify how environmental processes (i.e., glaciations and weathering) and characteristics (landforms, bodies of water, climate, vegetation) influence human settlement and activity in Ohio.
- Identify ways that people have affected the physical environment of Ohio including use of wetlands, use of forests, building farms, towns and transportation systems, using fertilizers, herbicides and pesticides, and building dams.
- Use elevation, natural resource and road maps to answer questions about patterns of settlement, economic activity and movement.

Government

- Explain major responsibilities of each of the three branches of government in Ohio including: the legislative branch, headed by the General Assembly, makes state laws; the executive branch, headed by the governor, carries out and enforces laws made by the General Assembly; the judicial branch, headed by the Ohio Supreme Court, interprets and applies the laws.
- Explain why elections are used to select leaders and decide issues.



- Explain the purpose of a democratic constitution including to provide a framework for a government, to limit the power of government and to define the authority of elected officials.
- Explain that the Ohio Constitution tells how the state government should be organized and guarantees the rights of individuals.

Citizenship Rights and Responsibilities

- Describe the ways in which citizens can promote the common good and influence their government including: voting, communicating with officials, participating in civic and service organizations and performing voluntary service.
- Explain why personal responsibilities (e.g., taking advantage of the opportunity to be educated) and civic responsibilities (e.g., obeying the law and respecting the rights of others) are important.
- Explain the importance of leadership and public service.
- Explain why characteristics such as respect for the rights of others, fairness, reliability, honesty, wisdom and courage are desirable qualities in the people citizens select as their leaders.

Social Studies Skills and Methods

- Obtain information about state issues from a variety of print and electronic sources, and determine the relevance of information to a research topic including atlases, encyclopedias, dictionaries, newspapers, and multimedia/electronic sources.
- Use a glossary and index to locate information.
- Use primary and secondary sources to answer questions about Ohio history.
- Describe how archaeologists and historians study and interpret the past.
- Identify main ideas and supporting details from factual information.
- Distinguish between fact and opinion.
- Read and interpret pictographs, bar graphs, line graphs and tables.
- Formulate a question to focus research.
- Communicate relevant information in a written report including the acknowledgement of sources.
- Use a problem-solving/decision-making process which includes: identifying a problem, gathering information, listing and considering options, considering advantages and disadvantages of options, choosing and implementing a solution and developing criteria for judging its effectiveness.



Economics

- Identify the productive resources needed to produce a good or service and suggest opportunity costs for the resources involved.
- Explain how the availability of productive resources in Ohio promotes specialization in the production of goods and services and leads to trade.
- Explain how entrepreneurs organize productive resources to produce goods and services and that they seek to make profits by taking risks.
- Explain ways in which individuals and households obtain and use income.
- Explain why people in Ohio specialize in what they produce and then trade with others, which then increases the amount of goods and services available.
- Explain why many jobs in Ohio depend on markets in other countries and why Ohio is a market for goods and services from other countries.



Health

Alcohol, Tobacco, and Drug Use

- Describe the effects of drugs on the body systems

Injury Prevention, Safety and First Aid

- Describe situations that necessitate telling an adult.
- Review situations that can be dangerous/destructive.

Nutrition

- Recognize serving size recommendations.

Family Life

- Compare and contrast responsibilities of various family members.

Mental and Emotional Health

- Understanding different feelings: personal, other 's, management of self-control, responsibility, conversations/ sharing, coping, positive/negative friendships, hurtful behavior, bullying/ridicule, acceptance of others, uniqueness.

Personal and Consumer Health

- Design a plan for helping to avoid illness.

- Recognize ways germs may enter the body.
- Explain how food can cause illness.
- Describe and demonstrate an awareness of how advertising affects the choices in food and health products purchased.

Physical Activity

- List health habits that reduce the risk of obesity.
- Explain the roles of exercise and rest in promoting good health.
- Inventory healthy activities that promote personal health.
- Develop a plan for integrating health activities into personal lives.

Structure and Function of the Human Body to Acquire Knowledge and Understanding of Human Growth and Physical Development

- Identify and discuss the interrelated roles of the parts of the respiratory system.
- Identify the basic functions of the nervous and endocrine systems.
- Demonstrate a general understanding of the digestive system in digestion.

For More Information:

Marysville Schools Website

<http://www.marysville.k12.oh.us>

Ohio Department of Education Website

<http://www.ode.state.oh.us>

For Standards Guides for Families

(In the search box type Standards Guides for Families)

For Ohio 's Statewide Testing Website

(See-Other Popular Links-at the bottom of the ODE Home Page)

