

Identified Indicators for CH-UH Report Card Grade 4

Reading

Acquisition of Vocabulary

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| 1 | Determining the meaning of unknown words by using a variety of context clues, including word, sentence and paragraph clues. | 2 | Developing an understanding of new uses of words and their concepts such as similes, metaphors, synonyms, antonyms, homonyms. |
| 3 | Identifying the meanings of prefixes and suffixes to determine the meanings of words. | 4 | Using dictionaries, glossaries or technology to determine the meaning of words and how to pronounce them. |

Reading Process - Concepts of Print, Comprehension Strategies and Self-Monitoring Strategies

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| 1 | Establishing a purpose for reading. (e.g. to find out, to interpret, to enjoy). | 2 | Predicting and supporting predictions using an awareness of new vocabulary, text structures and familiar plot patterns. |
| 3 | Comparing and contrasting information. | 4 | Summarizing important information in texts to demonstrate comprehension. |
| 5 | Selecting, creating and using graphic organizers to interpret textual information. | 6 | Answering literal, informational and evaluative questions to demonstrate comprehension of grade appropriate text. |

Reading Applications - Informational, Technical and Persuasive Text

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| 1 | Making inferences about the reading material based on the title page, table of contents and chapter headings. | 2 | Locating and summarizing important details about a topic within a reading selection. |
| 3 | Drawing distinctions between fact and opinion, cause and effect. | 4 | Understanding the meaning of main/central ideas and supporting details. |
| 5 | Drawing conclusions from information in maps, charts, diagrams and graphs. | | |

Reading Applications - Literary Text

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| 1 | Identifying the major events of a plot sequence (order in which events occur), identifying the conflict (problem) and how it was resolved. | 2 | Examining meaning as readers and understanding the point of view of others (e.g. characters, authors, narrators). |
| 3 | Identifying the speaker and recognizing the difference between first and third-person narration. | 4 | Determining the theme and whether it is implied or stated directly. |
| 5 | Identifying figurative language in literary works, including idioms, similes and metaphors. | | |

Writing

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Writing Process

- 1 Developing a purpose (e.g. to inform, to entertain) and audience for writing.
- 2 Developing a clear main idea for writing.
- 3 Using organizational strategies (e.g., brainstorming, lists, webs and Venn diagrams) to plan writing.
- 4 Organizing writing with a beginning (introduction), middle (body) and end (closure).
- 5 Creating paragraphs with a topic sentence and supporting details using a variety of sentence patterns and structures.
- 6 Rereading and revising own writing to make sure it is clear using prereading and reference material.

Writing Applications

- 1 Writing narratives that sequence events, including descriptive details and vivid language to develop plot, characters, and setting and to establish a point of view.
- 2 Writing responses to novels, stories and poems using the original text and prior knowledge.
- 3 Writing letters such as thank you notes that include all the proper parts: date, proper salutation, body, closing and signature.

Writing Conventions

- 1 Writing legibly.
- 2 Using punctuation accurately.
- 3 Correctly spelling most words, even difficult words.
- 5 Applying grammar and usage indicators correctly, contributing to writing clarity and style.

Research/Communication

- 1 Identifying a topic and questions for research and developing a plan for gathering information.
- 2 Creating categories to sort and organize relevant information charts, tables or graphic organizers.
- 3 Using different ways of communicating such as oral (spoken), visual or written to present information.
- 4 Discussing the meaning of plagiarism and create a list of sources.

Mathematics

Numbers, Number Sense and Operations

- 1 Rounding numbers to a given place value such as to the nearest 100 or 1,000.
- 2 Using place value concepts to represent numbers with numerals, words and models through millions and decimals through thousandths.
- 3 Recognizing and writing numbers in both fraction and decimal forms, such as $5/10 = 0.5 =$ “five tenths.”
- 4 Using models and points of reference to compare commonly used fractions.
- 5 Identifying and representing factors and multiples of whole numbers through 100, and classifying numbers as prime or composite.
- 6 Solving problems that involve counting money and making change using coins and dollar bills.
- 7 Demonstrating fluency in adding and subtracting whole numbers and in multiplying by 1- and 2 digit numbers and multiples of ten.
- 8 Estimating the results of computation involving whole numbers, fractions and decimals.

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9 Adding and subtracting decimals and fractions with like denominators (e.g., $2/4 + 1/4$).

10 Solving addition, subtraction, multiplication and division (interpret the meaning of remainders) problems that have more than one step.

11 Using mental math strategies to make estimates and to check the accuracy of computations.

Measurement

1 Identifying and selecting appropriate units to measure perimeter, area and volume.

2 Relating the number of units to the size of units used to measure an object.

3 Converting measurement units such as inches to feet, kilograms to grams or quarts to gallons.

4 Describing perimeter as surrounding, area as filling a two-dimensional shape (such as a circle or a square), and volume as filling a three-dimensional object (such as a cylinder or cube).

5 Applying counting techniques for measuring perimeter, area and volume.

Geometry and Spatial Sense

1 Describing similarities and differences of two-dimensional shapes (e.g., squares, rectangles, parallelograms).

2 Identifying and defining triangles based on angle measures (equiangular, right, acute and obtuse triangles) and side lengths (isosceles, equilateral and scalene triangles).

3 Finding examples or models of points, lines and planes in everyday objects and in the environment.

4 Identifying intersecting, parallel and perpendicular lines.

5 Comparing the characteristics of three-dimensional objects (e.g., cones, cubes, cylinders).

6 Specifying locations and plotting ordered pairs on a coordinate plane.

7 Identifying, describing and using reflections (flips), rotations (turns) and translations (slides).

Patterns, Functions and Algebra

1 Using words, tables and graphs to describe and answer questions involving patterns and other mathematical relationships.

2 Using models and words to describe, extend and make generalizations of patterns.

3 Representing problem situations using equations (e.g., $5 + n = 7$) and inequalities (e.g., $m + 2 < 5$).

4 Using numbers and symbols to represent problem situations.

5 Describing how a change in one number or variable affects a related value (e.g., as one value increases, the other decreases).

6 Constructing and using a table of values to solve problems.

Data Analysis and Probability

1 Comparing, evaluating and identifying appropriate ways to display the data.

2 Answering questions using information in tables, charts and graphs.

3 Interpreting and constructing Venn diagrams to sort and describe data.

4 Comparing different charts, tables and graphs to evaluate how well each represents the data.

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- 5 Using range, median and mode to make comparisons among sets of data.
- 6 Describing the characteristics of a set of data based on a graphical representation, such as range of the data, clumps of data, and holes in the data.
- 7 Conducting a simple probability experiment and drawing conclusions about the likelihood of possible outcomes.
- 8 Using pictures, diagrams and lists to solve problems involving possible arrangements (e.g., How many different combinations of shirts can be taken from 4 shirts?).
- 9 Describing the likelihood of simple events and chance situations.

Science

Earth and Space Science

- 1 Understanding how to predict weather and the instruments used to do so.
- 2 Identifying how water exists in the air in different forms and where they appear in the water cycle.
- 3 Describing evidence of changes on Earth's surface due to weathering, erosion, earthquakes, landslides, etc.
- 4 Describing how wind, water and ice shape and reshape Earth's land surface by erosion/weathering and depositing them in other areas in the form of dunes, deltas, etc.

Life Science

- 1 Comparing the life cycles of different plants.
- 2 Relating plant structures to the specific ways they survive.
- 3 Classifying plants according to their characteristics.
- 4 Observing evidence of fossil's environment and relate that to modern day organisms.
- 5 Describing how organisms interact with one another.

Physical Science

- 1 Identifying the characteristics of simple physical and chemical changes.
- 2 Explaining that matter has different states (e.g., solid, liquid, gas) and that each state has specific physical properties.
- 3 Comparing ways the temperature of an object can be changed (e.g., rubbing and heating of metal).

Science and Technology

- 1 Describing, illustrating and evaluating (assessing) the design process to solve a problem.

Scientific Inquiry

- 1 Using the correct tools and safety procedures to measure and record length, weight, volume, temperature and area in metric and English units.
- 2 Studying a series of events and/or simple daily or seasonal cycles and determine the patterns and what will most likely occur next.

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3 Developing, designing and conducting safe, simple investigations or experiments to answer questions and describe how comparisons may not be fair if the conditions are not kept the same between experiments.

4 Writing instructions and communicating data in a way that allows others to understand and repeat an investigation or experiment.

Scientific Ways of Knowing

1 Telling the difference between fact and opinion and explaining that scientists do not rely on claims or conclusions unless they are supported by observations that can be confirmed.

2 Recording the results and data from an investigation and making a reasonable explanation.

3 Explaining differences in an investigation using evidence or proof to support the findings.

4 Explaining why keeping records of observations and investigations is important.

Social Studies

History

1 Making timelines to show the order of important events in Ohio history.

2 Explaining the causes and effects of the frontier wars on American Indians in Ohio and the United States.

3 Explaining how Ohio became a state, including the terms of the Northwest Ordinance.

4 Explaining how canals and railroads changed settlement patterns in Ohio and how they affected Ohio's economic and political status in the United States.

5 Explaining the importance of Ohio inventors.

People in Societies

1 Describing the way of life of various groups who have settled in Ohio over time.

2 Describing the impact of the expansion of European settlements on American Indians in Ohio.

3 Explaining the reasons people came to Ohio.

Geography

1 Measuring the distance between places on a map.

2 Using cardinal (north, south, east, west) and intermediate (northeast, southwest, northwest, southeast) directions to describe the location of places.

3 Describing the location of Ohio compared to other states and countries.

4 Using maps to identify the location of places in Ohio.

5 Explaining how resources, transportation and location influenced the development of cities and industries in Ohio.

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Economics

- 2 Explaining how resources available in Ohio are used in producing goods and services which are traded for other goods and services.
- 3 Explaining how business people use natural resources, labor and equipment to produce goods and services, and that they attempt to make a profit by taking risks.
- 4 Explaining ways in which people and households obtain and use income.
- 5 Explaining why many jobs in Ohio create products that are sold in other countries and why products from other countries are sold in Ohio.

Government

- 1 Explaining major responsibilities of each of the three branches of Ohio's government.
- 2 Explaining why elections are used to select leaders and decide issues.
- 3 Explaining the purpose of a democratic constitution.
- 4 Explaining that the Ohio Constitution tells how the state government should be organized and how it guarantees the rights of people.

Citizen Rights and Responsibilities

- 1 Describing ways in which citizens can promote the common good and influence their government.
- 2 Explaining why personal and civic responsibilities are important.

Social Studies Skills and Methods

- 1 Getting information about state issues from different sources such as atlases, encyclopedias, dictionaries, newspapers and computers.
- 2 Locating information using a glossary and index.
- 3 Distinguishing between fact and opinion.
- 4 Reading and interpreting pictographs, bar graphs, line graphs and tables.
- 5 Using a problem-solving/decision-making process.