
*By the end of Fifth Grade, your child should be able to do the following in **SOCIAL STUDIES**:*

History:

- ▶ Compare and contrast historical, regional and cultural features among Native American groups.
- ▶ Describe the causes / major events of the Revolutionary War.
- ▶ Compare and contrast life in the northern, middle and southern colonies.
- ▶ Describe the causes and effects of the Civil War.
- ▶ Discuss the past and current impact of immigration.
- ▶ Explain western expansion in the United States.

Geography:

- ▶ Identify the country of origin of European explorers and areas of settlement in America.
- ▶ Use maps, photographs and computer models to gather and analyze information.
- ▶ Explain how geological processes shape physical environments.
- ▶ Compare and contrast the U.S., Canada and Latin America with respect to size, population and natural resources.

Economics:

- ▶ Explain how economic conditions have influenced historical events.
- ▶ Exhibit an understanding of economic systems of the major countries of North America.
- ▶ Recognize that standards of living are influenced by resources, technology and governments.
- ▶ Explain industrial growth in the United States.

Citizenship/Government:

- ▶ Describe the purpose of the U.S. Constitution and the three branches of government.
- ▶ Compare and contrast the governmental structures of the U.S., Canada and Latin America.
- ▶ Identify patriotic symbols and celebrations of the U.S., Canada and Latin America.
- ▶ Recognize the importance of current events.

A student with an Individual Education Plan and/or 504 Plan will be provided the necessary accommodations as outlined in his or her specific plan.

*By the end of Fifth Grade, your child should be able to do the following in **SCIENCE**:*

Human Body Systems:

- ▶ Identify digestive, respiratory, circulatory and musculoskeletal systems and describe their purpose.
- ▶ Recognize factors that affect the health of each of the systems and how individuals can impact their health.
- ▶ Describe the flow of nutrients through the digestive system and how each organ supports the digestive process.
- ▶ Identify the parts of the respiratory system and explain how gases are exchanged during the breathing process.
- ▶ Construct a model that demonstrates how the heart's two-pump action delivers oxygen to the body and returns carbon dioxide to the lungs.
- ▶ Compare the component functions of blood / blood vessels.
- ▶ Explain how skeletal muscles and bones interact with the nervous system to produce movement.

Ecosystems:

- ▶ Illustrate the interdependence of organisms in ecosystems.
- ▶ Recognize characteristics of stable and unstable ecosystems.
- ▶ Explain how humans / nature upset an ecosystem's stability.
- ▶ Order an ecosystem's basic elements, living and non-living.

Weather:

- ▶ Label and describe the layers of the Earth's atmosphere.
- ▶ Recognize how altitude and temperature impact air pressure.
- ▶ Explain how the amount of sunlight, angle of sun's rays and origins and movement of air masses affect climate.
- ▶ Evaluate factors that impact weather.
- ▶ Explain how energy from the sun determines the water cycle and results in different types of precipitation.
- ▶ Summarize types of severe weather and safety precautions that can be taken to reduce injury and damage.
- ▶ Identify and classify clouds and their use in predicting weather.



Starlab:

- ▶ Predict and explain how the sun's path varies from season to season in the northeast and how this variation is the cause of the change in seasons.

Academic Expectations

What You Can Expect During Your Child's Year in **Fifth Grade**

English Language Arts, Social Studies, Mathematics and Science

While all children learn in different ways, you expect your child to make progress in school every year.

This brochure defines what your child should be able to do in the areas of English language arts, mathematics, social studies and science by the end of this year.

At Scotia-Glenville, learning is often integrated between subject areas. English Language Arts reading and writing skills, for example, are also stressed in social studies, mathematics and science.

Please review this list of grade-level expectations and, if you have any questions, please feel free to contact your child's teacher or principal. We value the partnership that can exist between school and home.

Our district is committed to an education for your child that is consistent across our elementary schools and which will add depth and richness to your child's experiences.



*By the end of Fifth Grade, your child should be able to do the following in **ENGLISH LANGUAGE ARTS**:*

Reading:

- ▶ Read and understand independently grade level materials including fiction and non-fiction, plays, poetry and articles.
- ▶ Use reference materials (dictionary, atlas, encyclopedia, thesaurus, and electronic media).
- ▶ Read for judgment, interpretation, and evaluation (eg. graphs, diagrams, advertisements).
- ▶ Demonstrate fluency and expression in oral reading.

Writing:

- ▶ Use proper mechanics of writing (capitalization, punctuation, spelling and grammar).
- ▶ Use the four steps of the writing process: prewriting, drafting, revising and editing
- ▶ Write multi-paragraphed essays in response to document based questions.
- ▶ Summarize or paraphrase information read.
- ▶ Produce an outline.
- ▶ Write a research paper using supporting evidence and details and construct a bibliography.
- ▶ Write for a variety of purposes (poetry, friendly and business letters, persuasive essay, book report and electronic mail message).

Listening:

- ▶ Listen to and follow multi-step directions.
- ▶ Listen for information and meaning.
- ▶ Respond appropriately to what is heard.
- ▶ Show respect when others are speaking.
- ▶ Ask/ answer appropriate questions related to instruction.
- ▶ Listen to an oral presentation and respond in writing.
- ▶ Listen to a speaker and form an opinion.

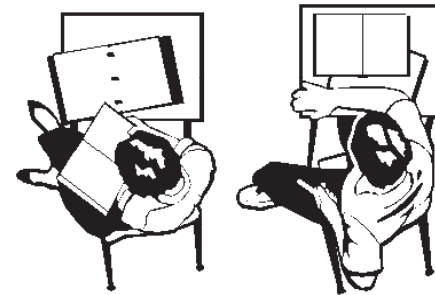
Speaking:

- ▶ Express ideas clearly and effectively.
- ▶ Ask relevant questions in response to discussion.
- ▶ Respond respectfully and contribute ideas to class discussions.
- ▶ Use language appropriately according to purpose, audience, and occasion.
- ▶ Present written information orally (eg. book report).

*By the end of Fifth Grade, your child should be able to do the following in **MATHEMATICS**:*

Number Sense and Operations:

- ▶ Read, write, compare and order whole numbers through billions and decimals through thousandths.
- ▶ Use numbers up to billions .
- ▶ Round numbers from hundredths to ten-millions.
- ▶ Multiply three-digit by three-digit numbers.
- ▶ Divide three-digit numbers by one and two digit numbers.
- ▶ Use addition, subtraction, multiplication and division to estimate and calculate decimals through thousandths.
- ▶ Create equivalent fractions for a given fraction.
- ▶ Express fractions in simplest form.
- ▶ Compare/ order fractions with like/ unlike denominators.
- ▶ Estimate and calculate sums and differences of fractions and mixed numbers with like denominators.
- ▶ Convert improper fractions to mixed numbers and mixed numbers to improper fractions.
- ▶ Multiply and divide fractions and mixed numbers.
- ▶ Differentiate between prime and composite numbers.
- ▶ Calculate the least common multiple and greatest common factor of two numbers.
- ▶ Explain, verbally and in written form, word problem-solving strategies.



Geometry:

- ▶ Identify/ classify triangles and quadrilaterals by their sides and angles and state the sum of their interior angles.
- ▶ Identify similar and congruent triangles.
- ▶ Measure and draw angles with a protractor.
- ▶ Calculate the perimeter of regular and irregular polygons.
- ▶ Locate and draw lines of symmetry in shapes.
- ▶ Use coordinates to plot points on a graph.

All learning is cumulative.

What is taught the previous year is strengthened by what is taught this year.

Measurement:

- ▶ Convert linear measurement using U.S. standard and metric systems.
- ▶ Calculate elapsed time in hours and minutes.
- ▶ Identify and estimate equivalent U.S. standard and metric units of length.
- ▶ Measure to the nearest centimeter and to the nearest one-eighth inch.

Algebra:

- ▶ Evaluate algebraic expressions.
- ▶ Solve one-step algebraic equations .
- ▶ Create and explain patterns and relationships.

Statistics and Probability:

- ▶ Collect and record data from a variety of sources.
- ▶ Create a line graph to display changes in data over time.
- ▶ Make predictions/ draw conclusions from data in a graph.
- ▶ Calculate the average (mean) for a given set of data.
- ▶ List outcomes for a single probability event/ record results.
- ▶ Determine the probability of a single event occurring.
- ▶ Express the comparison of two quantities as a ratio.
- ▶ Express ratios in different forms.
- ▶ Identify percent as a comparison to 100.



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