

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

History:

- ▶ Describe how Native Americans used environmental resources to meet their basic needs.
- ▶ State contributions made by Native Americans.
- ▶ Analyze the Iroquois Confederacy and its importance.
- ▶ Name the major explorers of N.Y. State.
- ▶ Identify New York State's role in the Revolutionary War.
- ▶ Compare and contrast Dutch and English influences in colonial N.Y. State.
- ▶ Describe the social changes in women's rights, slavery and child labor.
- ▶ Describe facts about local history.

Geography:

- ▶ Find a specific location using latitude and longitude.
- ▶ Read and interpret different types of maps.
- ▶ Identify and locate community, state and national boundaries, continents and oceans.
- ▶ Name the important natural resources of N.Y. State.



Economics:

- ▶ Recognize how improvements in transportation, especially the Erie Canal, impacted N.Y. State's growth.
- ▶ Describe the economic impact of immigrants and their contributions to N.Y. State.
- ▶ Explain the impact of the Industrial Revolution.

Citizenship/Government:

- ▶ Examine the organization of our local, state and national governments.
- ▶ Discuss the basic principles of democracy.
- ▶ Name the rights and responsibilities of citizenship.
- ▶ Discuss events related to local, national and world news.

All learning is cumulative.

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

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

Land and Water:

- ▶ Use stream tables to investigate the interactions between water and land.
- ▶ Analyze the materials that make up land and describe these materials on the basis of their properties.
- ▶ Compare the land changes created by water flowing over and through soil in a stream table and relate these results to natural processes.
- ▶ Communicate the results of an investigation through record sheets, oral and written observations, and drawings.
- ▶ Investigate the effects of slope, flow and natural land formations on erosion and deposition.
- ▶ Design and build models of dams to test their effects on land and water interactions.
- ▶ Identify evidence within a model to support predictions, observations and conclusions.

Electrical Circuits:

- ▶ Identify and use symbols to represent the different parts of an electric circuit.
- ▶ Using an electrical diagram, construct and wire a simple electrical circuit, circuit tester and a switch.
- ▶ Observe, describe, record and predict results of electricity experiments.
- ▶ Use trouble-shooting to identify incomplete circuits.
- ▶ Design and build a flashlight.
- ▶ Recognize the electrical design used in wiring a house.

Animal Studies:

- ▶ Observe and describe characteristics and behaviors of the dwarf African frog, millipede and fiddler crab.
- ▶ Recognize the needs of the animals.
- ▶ Maintain a suitable habitat to meet the animals' basic needs, including their comfort and safety.
- ▶ Predict and observe the animals' reaction to changes in their environment.
- ▶ Compare and contrast the animals studied to humans.

Moon Phases:

- ▶ Use a model to demonstrate the differences between rotation and revolution.
- ▶ Identify the names and shapes of the moon's phases.

Academic Expectations

*What You Can Expect During Your Child's Year in **Fourth 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 Fourth 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 writing process.
- ▶ Write well-constructed paragraphs to demonstrate reading comprehension.
- ▶ Use graphic organizers for planning and note taking.
- ▶ Use reference tools (dictionary, atlas, encyclopedia, thesaurus, and electronic media).
- ▶ Write for a variety of purposes (eg. poetry, friendly letter, persuasive paragraph, and research report).

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.
- ▶ Listen for important information in articles and stories.
- ▶ Listen to oral presentations.

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.
- ▶ Make oral presentations.

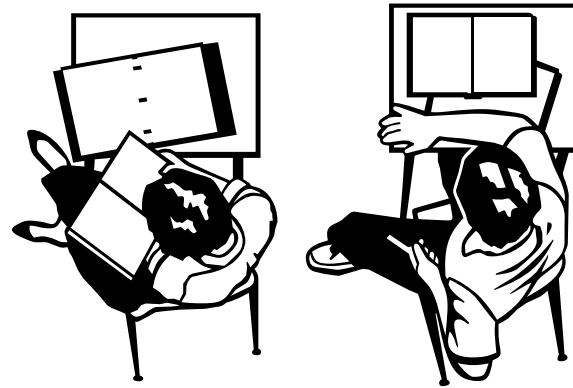
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*By the end of Fourth Grade, your child should be able to do the following in **MATHEMATICS**:*

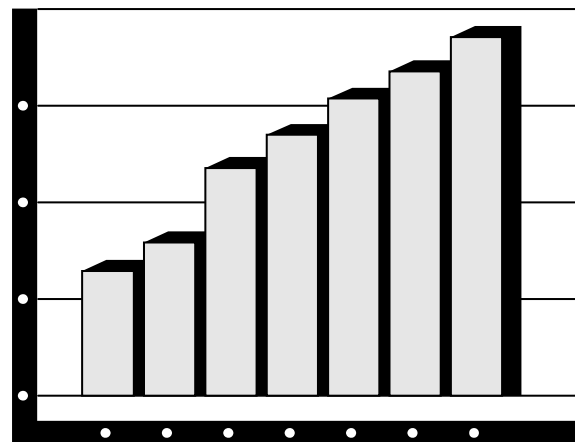
Number Sense and Operations:

- ▶ Read, write, compare, order and round whole numbers to 100,000.
- ▶ Read, write, compare and order decimals to the hundredths.
- ▶ Use numbers up to the ten-thousands place value.
- ▶ Use strategies to add and subtract numbers up to 5 digits.
- ▶ Add and subtract decimals to the hundredths place.
- ▶ Add and subtract fractions with common denominators.
- ▶ Recognize and generate equivalent fractions.
- ▶ Express decimals as an equivalent form of fractions.
- ▶ Multiply 2 digit by 1 or 2 digit numbers.
- ▶ Divide 2 digit by 1 digit numbers with and without remainders.
- ▶ Explain word problem-solving strategies verbally and in writing.
- ▶ Use estimation to check if an answer is reasonable.



Algebra:

- ▶ Analyze a pattern or number sentence and state the rule.
- ▶ Describe, extend and make generalizations about number and geometric patterns.



Geometry:

- ▶ Identify and name shapes (triangle, quadrilateral, pentagon, hexagon and octagon) and lines (intersecting, perpendicular and parallel).
- ▶ Calculate perimeter and area.

- ▶ Classify types of angles (acute, obtuse, right and straight).
- ▶ Define/name parts (vertices, faces and edges) of 3-dimensional shapes.

Measurement:

- ▶ Measure weight, length, capacity and mass using metric and U.S. standard units.
- ▶ Use equivalent U.S. standard units of length.
- ▶ Make change using coins and dollars.
- ▶ Calculate elapsed time in hours, days and weeks.

Statistics and Probability:

- ▶ Read, construct and interpret tables, line graphs, bar graphs and pictographs.
- ▶ Collect data, record information, make predictions and interpretations based on data.
- ▶ Compare pictographs and bar graphs.

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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.