

GENERAL STUDIES

4th GRADE

MATH

Numeration

The students will:

- Give equivalent names for numbers, fractions/decimals.
- Understand place value to millions.
- Identify and use square numbers.
- Use money notation.
- Find missing numbers on number lines up to millions.
- Identify fractional parts of regions and collections of objects.
- Understand that 100% is a whole.

Numerical Operations

The students will:

- Have a successful strategy for adding, subtracting, multiplying and dividing multi-digit numbers.
- Explain the relationship between multiplication and division.
- Solve elapsed time problems.

Measurement and Geometry

The students will:

- Identify lines of symmetry (reflections).
- Identify congruency and similarity.
- Draw reflections, slides, rotations, and flips.
- Measure in feet and inches, yards, miles, centimeters and millimeters.
- Measure square feet and square inches.
- Understand weight in customary and metric measures.

Statistics, Estimation, Algebra

The students will:

- Use the statistical landmarks of range, median and mode.
- Use coordinates to identify points on a grid.
- Use personal references to estimate lengths in US customary units.
- Use tables of data to solve problems.
- Use prediction strategies for probability.

LANGUAGE ARTS/READING

Reading

The students will:

- Use reading for information: declarative, interrogative and narrative.
- Use reading for: main idea, supporting details and continuing sequence.
- Use summarizing skills.
- Use paraphrasing skills.
- Explain parts of a book.
- Interpret diagrams, charts, etc.
- Analyze the meaning of text, by being able to summarize, locate details, and begin to interpret text.
- Synthesize the meaning of text.
- Expand range of text to read multiple genres: poetry, informative, fiction and biography.
- Understand and explain critical reading (author's point of view, objective view, subjective point of view).
- Use figurative language.
- Use reference skills.
- Know the difference between fiction and non-fiction.
- Integrate at least three reading strategies to interpret text and give strategies.
- Apply knowledge of previous text to understand new text.
- Orally defend a point of view from text.
- Appreciate reading as pleasure activity.

Writing

The students will:

- Apply the elements of writing genres: poetry, informative, fiction, biography and autobiography.
- Evaluate and select information relevant to the assigned writing.
- Choose writing strategies that clarify communication.
- Apply grammatical, spelling and organizational writing skills.
- Demonstrate independence in writing.
- Use the element of the writing process towards the development of a final product.
- Organize related information in writing using appropriate spelling, sentence structure and grammar.
- Expand personal goals for writing: more complex ideas, greater details and description, drawing conclusions.
- Show different kinds of writing, strategies to answer questions, letters, prose and poetry.

Communication

The students will:

- Demonstrate ability to communicate orally.
- Be able to articulate more complex directions orally.
- Respond successfully to more complex or multi-aural and written directions.
- Memorize and recite poetry.

SCIENCE

Meteorology

The students will:

- Explain the composition of the four main layers of the earth's atmosphere.
- Explain how instruments are used to measure temperature and air pressure.
- Explain how instruments are used to measure relative humidity and precipitation.
- Illustrate the water cycle.
- Explain how instruments are used to measure wind speed and direction.
- Analyze how meteorologists interpret weather data to make weather forecasts.
- Interpret the major features of a weather map.
- Analyze how different types of fronts and storms affect weather in the U.S.

Light, Sound, and Heat

The students will:

- Evaluate light and sound as sources of energy.
- Compare characteristics of light and sound.

You and Your Body (FOSS)

The students will:

- Explain the functions of skeletal system in the human body.
- Observe the movement of the body in the act of jumping.
- Locate some of the major bones in the body.
- Compare own skeleton to posters and a photo of the human skeleton.
- Determine the number of bones in the human skeleton.
- Learn the name, location, and orientation of the most important bones.
- Use scientific thinking processes to conduct investigations and build explanation: observing, communicating, comparing, and organizing.
- Observe joints on the human hand.
- Perform everyday tasks with hand joints immobilized.
- Investigate different kinds of joints.

- Demonstrate how muscles make the body move.
- Learn that muscles contract when they work.
- Build a model to demonstrate how muscles, tendons and ligaments work together.
- Explain what happens when they inhale and exhale.
- Explain the functions of the circulatory system.

SOCIAL STUDIES

New Jersey

The students will:

- Identify the three branches of NJ and Federal Government.
- Analyze how the cultural diversity of New Jersey has changed over time.
- Assess how the geography of New Jersey has affected its economic development (land forms, natural resources).
- Understand land forms.
- Identify natural resources.
- Understand the significant contribution the people of New Jersey have made to the United States and the world.
- Evaluate a current New Jersey trend or issue.
- Study the three branches of New Jersey and Federal government.
- Understand longitude and latitude.
- Use a map key and scale.

Native Americans

The students will:

- Evaluate the contributions of Native Americans to early settlers.
- Evaluate the relationship of Native Americans with settlers.

Early Settlers and Pioneers

The students will:

- Explain how early settlers and pioneers adapted to their new environment.

Colonization

The students will:

- Identify which colonial systems existed for decision-making.
- Analyze the lifestyles of the various colonies with the lifestyles of Native Americans.
- Evaluate the effect of cultural differences on the creation of conflict.
- Analyze the lifestyles of the colonists with present day lifestyles.
- Understand how goods and services were acquired.
- Evaluate how colonists made use of their renewable and non-renewable resources.

- Analyze how geographic location affected Colonial development.

American Revolution in New Jersey

The students will:

- Understand the reasons that led the colonies to rebel against Great Britain.
- Evaluate the problems that emerged with cultural diversity.
- Evaluate the laws enforced by Great Britain that led to rebellion.
- Understand how the American Revolution became a world event.
- Evaluate the effects of the principles of the Declaration of Independence towards all people today.