



Grade 5 Language Arts

Course Description

Language Arts provide instruction in reading/comprehension, writing, speaking, listening, viewing, spelling, vocabulary, handwriting, and grammar/structure. A variety of methods will be employed to teach basic skills, extend thinking, and promote/refine language development. Literature exposes students to different genres of writing and promotes critical reading, thinking, and discussing.

Objectives

Students will be able to

- Acquire Concepts About Print
- Acquire Concepts About Text
- Acquire Phonological Awareness Skills
- Acquire Decoding Skills Using Word Parts
- Acquire Decoding Skills Using Syllabication
- Acquire Decoding Skills Using Context
- Acquire Fluency
- Develop vocabulary and conceptual understanding
- Acquire Strategies and Skills for Comprehending Text Instructional Material/Required Texts
- Acquire Skills to Comprehend Expository Text
- Acquire Skills for Comprehending Literary Text
- Acquire Prewriting Skills
- Acquire Skills for Writing a Draft
- Acquire Skills for Revising a Draft
- Acquire Skills for Editing a Draft
- Acquire Skills to Publish Writing
- Acquire Expressive (Narrative/Creative) Writing Skills
- Acquire Expository (Informational/Research) Writing Skills
- Acquire Persuasive Writing Skills
- Acquire Skills for Literary Response
- Acquire Handwriting Skills
- Acquire Spelling Skills
- Acquire Skills for Sentence Structure
- Acquire Skills for Using Conventions
- Acquire Listening Skills
- Acquire Speaking Skills

Required Texts and Instructional Materials

Harcourt (Trophies) textbooks – themes 1-6

Harcourt (Trophies) practice workbook

Harcourt (Trophies) practice spelling book

Harcourt (Trophies) corresponding in-class library booklets



Grade 5 Mathematics

Course Description

Mathematics aims at exploring, justifying, representing, solving, constructing, discussing, using, investigating, describing, developing, and predicting. Students are actively involved in problem-solving, thinking, and reasoning. Manipulatives are used to connect conceptual understanding. Emphasis is placed on application as well as on acquisition of knowledge and skills. By the end of grade five, students increase their facility with the four basic arithmetic operations applied to whole numbers, fractions, and decimals. Students understand the concepts of mean, median, mode, and range of data sets and can calculate them. They use line plots, bar graphs, and line graphs to record and analyze data.

Objectives

Students will be able to

- Understand and use numbers up to billions (including place value, comparing and ordering, rounding).
- Estimate and judge reasonableness of results.
- Multiply using 4-digit factors
- Divide using zeros in quotient.
- Understand and use decimals to ten thousandths (including place value, comparing and ordering, rounding)
- Multiply and divide decimals by whole numbers.
- Understand fractions through comparing like and unlike denominators, understanding mixed numbers, placing fractions in simplest form and by relating fractions to percentages.
- Addition and subtraction of fractions.
- Measure angles, length/distance using different and appropriate units, calculating volumes/weight/mass and computing temperature changes.
- Calculate perimeters, circumference and areas of different shapes.
- Use algebraic symbolism as a tool to represent mathematical relationships.
- Evaluate algebraic expressions.
- Solve algebraic equations and inequalities.
- Understand the concept of functions.
- Represent equations, inequalities and functions in a variety of formats.
- Analyse, collect, organize and display data using the correct graph.
- Find the mean, median, mode and range of data.
- Understand basic concepts of probability.

Instructional Material and Resources/ Required Texts

Text: Harcourt Math Text

Materials: Harcourt Math Practice book, manipulatives



Grade 5 Science

Course Description

Science will enable students to attain scientific and technological skills by developing the knowledge of and ability to use tools, skills, and methods of scientific inquiry. They will develop age-appropriate knowledge and understanding of the life, earth, and physical sciences as well as the history and nature of science. Resources to promote scientific literacy will nurture a lifelong fascination with the natural world. Concepts will be solidified through investigations and experiments.

Objectives

Students will be able to

- Explain how the universe works
- Describe the solar system and all its components
- Understand characteristics of the earth
- Investigate how resources need to be and can be maintained, re-used and re-cycled
- Describe the life cycle, ecosystems, and energy transfer
- Understand food chains and food webs
- Analyze organisms as they relate to their ecosystems
- Define energy in all its aspects
- Explore and summarize observations
- Describe observations
- Investigate impacts of human activity and technology on environment
- Revise problem-solving designs
- Explain how a solution to one problem can create more problems
- Select and safely use appropriate tools to collect data
- Evaluate observations and measurements and identify reasons for discrepancies
- Use evidence and observations to explain and communicate results of investigations
- Identify variables in an experiment
- Identify potential hazards involved in an investigation
- Explain why results of an experiment sometimes differ
- Summarize how conclusions and ideas change as new knowledge is gained
- Develop descriptions, explanations and models
- Acquire scientific vocabulary for practical use in reading comprehension, speaking and writing

Instructional Material and Resources/ Required Texts

Text: Harcourt (Brace) Science textbook

Harcourt (Brace) Science workbook

Materials: Various materials used for investigations and experiments



Grade 5 **Social Studies**

Course Description

Social Studies narrate modern cultural characteristics, contributions and achievements of East and West in a carefully balanced and consistently objective way. Civilizations are discussed in a positive style emphasizing historical continuity and cultural interaction. A global approach is reinforced by images, primary source excerpts, and skills development activities that reflect the great variety and diversity of the human experience.

Objectives

Students will be able to

- Interpret significance of global exchanges during the European Renaissance.
- Understand European exploration of new ideas and places in light of the Scientific Revolution
- Evaluate the effects of the Europeans in the Americas, specifically the Spanish in South America and the English in North America
- Read and interpret circle graphs, resource maps, population maps, political maps, double line graphs, political cartoons, and double bar graphs.
- Evaluate life in African kingdoms and the slave trade that ensued.
- Discuss national revolutions as well as the industrial revolution and how they differ
- Look at inventions and evaluate pros and cons
- List causes of the World War I and understand the rise if dictators.
- Understand changes in society, tensions between nations and peoples, and the causes and effects of human activity on the environment
- Appreciate the technological revolution

Instructional Material and Resources/ Required Texts

Text: Steck-Vaughn (Harcourt) History of Our World: People, Places, and Ideas. Volume 2, The Modern World.

Materials: Various materials needed for class projects, charts and graphs, World map, Graphic organizers and Globe.