



PINEWOOD – THE AMERICAN INTERNATIONAL SCHOOL OF THESSALONIKI, GREECE

NAME OF COURSE: Language Arts

GRADE LEVEL: 4

SCHOOL YEAR: 2011-2012

COURSE DESCRIPTION

The Grade 4 Language Arts program focuses on four main strands:

- **Reading**
- **Writing**
- **Written and Oral Language Conventions**
- **Listening and Speaking**

The general aim of the program is to enable students to have access to as many areas of communication as possible; to help them extend and refine their communication skills to the best of their abilities and to encourage them as they develop their own particular styles.

LEARNING OBJECTIVES

Students will

- Read aloud narrative and expository text fluently and accurately and with appropriate pacing, intonation, and expression
- Use word origins to determine the meaning of unknown words
- Understand and explain the figurative and metaphorical use of words in context.
- Discern main ideas and concepts presented in texts, identifying and assessing evidence that supports those ideas.
- Identify the main problem or conflict of the plot and explain how it is resolved
- Create multiple-paragraph narrative compositions
- Establish and develop a situation or plot.
- Describe the setting
- Present an ending
- Use correct capitalization, spelling and grammar rules

SCOPE AND SEQUENCE *

Trimester I

Reading

September

a) A visit with Grandpa

Short Story

- b) Train to Somewhere Short Story
- c) Yingatao's New Friend Short Story

October

- a) Family Pictures Short Story
- b) Addie In Charge Short Story
- c) From The Cricket in Times Square Short Story
- d) A Big City Dream Short Story

November

- a) I love Guinea Pigs Short Story
- b) The Swimming Hole Short Story
- c) Komodo Dragons Short Story
- d) John Henry Short Story
- e) Marven of the Great North Woods Short Story

Writing/ Written Conventions

September

- a) Spelling lessons 1-4
- b) Handwriting pgs. 3-20
- c) Capitalization rules 1-4
- d) Grammar practice book
- e) Daily Journal
- f) Weekly short stories- focus on setting

October

- a) Spelling Lessons 5-8
- b) Handwriting pgs. 21-35
- c) Capitalization rules 5-8
- d) Grammar practice book-
- e) Daily Journal
- f) Weekly short stories- focus on characterization

November

- a) Spelling Lessons 9-12
- b) Handwriting pgs. 36-50
- c) Capitalization rule 9-11
- d) Grammar practice book
- e) Daily journal
- f) Weekly short story- focus on plot

Trimester II

Reading

December

- a) On the Pampas Short Story
- b) The Storm Short Story
- c) Rikki-Tiki-Tavi Short Story

January

- a) Half Chicken Short Story
- b) Blame it on the Wolf Short Story
- c) Lou Gehrig: The Luckiest Man Short Story

d) The Disguise Short Story

February

- a) Keepers Short Story
- b) Amazing Alice Short Story
- c) A Peddler's Dream Short Story
- d) The Race for the North Pole Short Story

Writing/ Written Conventions

December

- a) Spelling Lessons 13-15
- b) Handwriting pgs. 51-60
- c) Capitalization rules review
- d) Grammar practice book
- e) Daily Journal
- f) Weekly short story – focus on climax

January

- a) Spelling Lessons 16-19
- b) Handwriting pgs. 61-70
- c) Grammar practice book
- d) Daily journal
- e) Haiku poetry

February

- a) Spelling lessons 20-23
- b) Handwriting pgs. 71-80
- c) Grammar practice book
- d) Daily Journal
- e) Letter writing

Trimester III

Reading

March

- a) Into the Sea Short Story
- b) Space Probes to the Planet Short Story
- c) Koya's Cousin Del Short Story
- d) Children of Clay Short Story

April

- a) Coming Home Short Story
- b) Out of the Blue Short Story

May

- a) Chocolate is Missing Short Story
- b) Sarah Plain and Tall Novel
- c) The Enormous Egg Novel
- d) Charlie and the Chocolate Factory Novel

June

- a) James and the Giant Peach Novel
- b) Charlotte's Web Novel

c) The Forgotten Door

Novel

Writing/ Written Conventions

March

- a) Spelling lessons 24-27
- b) Handwriting pgs 81-90
- c) Grammar practice book
- d) Daily Journal
- e) Writing a composition- point of view is expressed

April

- a) Spelling lessons 28-31
- b) Handwriting pgs 90-95
- c) Grammar practice book
- d) Daily Journal
- e) Writing a report

May

- a) Spelling lessons 32-35
- b) Grammar practice book
- c) Daily Journal
- d) Creative Writing – Short stories once again

June

- a) Spelling- finish workbook
- b) Grammar practice book- finish workbook
- c) Daily Journal
- d) Creative Writing- Publish end of year collection of Students work

**Note that the order in scope and sequence is subject to change during the school year.*

HOMEWORK POLICY

Language Arts is the backbone of academic instruction. Daily reading and writing activities will be assigned so as to reinforce class instruction. All assignments are corrected and taken into consideration when evaluating students.

ASSESSMENT

A variety of assessment instruments both formal and informal are used. These include the following:

- Class discussions
- Tests
- Quizzes
- Written comprehension questions
- Book Reports
- Keeping a Daily journal
- Spelling workbook exercises
- Written responses to comprehension questions
- Creative Writing Stories and compositions

RESOURCES

- Scott Foresman Reading Text Gr. 4

- Class novels
- The Cay
- The Enormous Egg
- The Girl Who Owned A City
- Charlie and The Chocolate Factory
- James and the Giant Peach
- classroom dictionaries and thesaurus
- The Forgotten Door
- Etc.

ACADEMIC HONESTY

Academic honesty is fundamental to the integrity and operation of our school. Acts of academic dishonesty, including plagiarism (the act of presenting others' words and ideas as one's own without crediting the source), stealing in quizzes and tests, copying work from other students or allowing their own work to be copied, or using notes during a test, are considered serious offences. The consequences of academic dishonesty will be a zero grade on the specific test/assignment, and additional disciplinary action. The said student will be ineligible or removed from the National Honor Society.

SCHOOL YEAR: 2011-2012

COURSE DESCRIPTION

The Grade 4 mathematics program will examine the concepts of place value; adding, subtracting, multiplication and division of whole numbers, Decimals and Fractions. We will also examine Time, Data, and Graphs, Geometry, Measurement, Graphing and Probability.

LEARNING OBJECTIVES

The Grade 4 program gives students the opportunity to develop

- An ability to reason mathematically and to solve problems
- An ability to use mathematical concepts and arithmetic operations with understanding
- Compute efficiently
- Understand and use commutative, associative and distributive properties
- Add, subtract, divide, using decimals and fractions
- Estimate length, area, volume, mass, time, temperature and speed.

SCOPE AND SEQUENCE *

Trimester I

Place Value and Money (chapter 1 of text)

- Numbers in the thousands
- Understanding Greater Numbers
- Place value patterns
- Comparing and ordering numbers

Adding and Subtracting Whole Numbers and Money (chapter 2 of text)

- Mental math : adding
- Mental math : subtracting
- Estimating sums and differences
- Overestimates and underestimates

Multiplication and Division Concepts and Facts (chapter 3 of text)

- Meanings for multiplication
- Patterns in multiplying 0, 1, 2, 5, 9
- Using known facts to find unknown facts
- Multiplying by 10, 11, 12
- Meanings for Division

Time, Data, and Graphs (chapter 4 of text)

- Telling time
- Units of time
- Elapsed time
- Calendars

Trimester II

Multiplying by One-Digit numbers (chapter 5 of text)

- Multiplying by multiples of 10, 100, 1000
- Estimating products
- Mental math

- Using Arrays to multiply

Multiplying by two digit numbers (chapter 6 of text)

- Multiplying multiples of ten
- Estimating products
- Using arrays to multiply
- Multiplying two digit numbers

Dividing (chapter 7 of text)

- Using patterns to divide mentally
- Estimating quotients
- Dividing with remainders
- Two digit quotients
- Dividing two digit numbers

Geometry and Measurement (chapter 8 of text)

- Relating solids and plane figures
- Polygons
- Lines, line segments, rays and angles
- Triangles and quadrilaterals
- Circles
- Congruent figures and motions
- Symmetry

Trimester III

Fraction Concepts (chapter 9 of text)

- Parts of a region
- Parts of a set
- Fractions, lengths, and the number line
- Estimating fractional parts
- Equivalent fractions
- Fractions in simplest form

Fraction Operations and Customary Measurement (chapter 10 of text)

- Estimating fraction sums
- Adding fractions with like denominators
- Adding fractions with unlike denominators
- Length and customary units

Decimals and Metric Measurement (chapter 11 of text)

- Decimals and fractions
- Decimal place value
- Comparing and ordering decimals
- Rounding decimals
- Estimating decimal sums and differences
- Using grids to add and subtract decimals
- Adding and subtracting decimals

Graphing and Possibility (chapter 12 of text)

- Inequalities on a number line
- Translating words to equations

- Equations and graphs
- Understanding probability
- Listing outcomes
- Finding probability
- Making predictions

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HOMEWORK POLICY

Students are expected to do some math homework daily. The amount of time to complete this work (workbook- text book- worksheets) will depend on the students work habits, attention span and ability level. On average it should be between 15-30 minutes.

ASSESSMENT

Assessment is ongoing and both formal and informal. Student's work is assessed through:

- Daily review
- Homework assignments
- Class participation
- Quizzes
- Tests
- Chapter tests

RESOURCES

- Scott Foresman- Addison Wesley- Mathematics Gr. 4
- Homework Wkb.
- Teaching Tool Masters
- Reteaching Masters/Workbook
- Spiral Review
- Problem Solving Masters/Workbook
- Enrichment Masters/Workbook
- Practice Masters/Workbook
- Answer Key

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NAME OF COURSE: Science

GRADE LEVEL: 4

SCHOOL YEAR: 2011-2012

COURSE DESCRIPTION

The grade 4 Science program will help students develop awareness of the natural environment and of how it affects and in turn is affected by human activities, past and present. Students will develop concepts basic to science, such as matter, mass, force, energy, time, temperature, change, interdependence, growth, and development.

Students will be introduced to the scientific method and it is expected that students will:

- Predict the results of an experiment
- Perform an experiment by following procedure
- Construct simple definitions based on their experiment
- Present their interpretation of the results from an experiment
- Use a variety of media to present information

LEARNING OBJECTIVES

LIFE SCIENCE

- Students will develop an understanding of the structure and function of cells and organisms as well as the process and structures involved with reproduction (pollination, stamen, pistil, embryo, spore, seed).
- Students will know that plants and animals progress through life cycles of birth, growth and development, reproduction and death.

PHYSICAL SCIENCE

- Students will develop an understanding of the structure and properties of matter. They will learn that matter has different states and that each state has distinct physical properties. They will also learn that materials may be composed of parts that are too small to be seen without magnification.
- Students will understand the sources and properties of energy. They will learn that heat is often produced as a byproduct when one form of energy is converted to another. Students will also understand the concept of conduction.

EARTH SCIENCE

Measuring Weather Conditions

- Students will develop an understanding of how meteorologists measure weather conditions.
- Students will know causes of different air temperatures, how temperature affects air pressure and wind, and how low pressure causes clouds and precipitation

Changes in Landforms

- Students will know that the earth consists of landforms, layers- the crust, mantle, and core- and plates that move.
- Students will learn how volcanoes and earthquakes change the shape of the land.

Movement in the Solar System

- Students will learn that the earth's rotation causes day and night; its revolution causes years; and its tilt causes seasons.
- Students will learn that the revolution of the moon around the earth causes the phases of the moon and eclipses.

THE HUMAN BODY

Digestion and circulation

Students will learn that:

- The organs of the digestive system work together to break down food into a form that the body can use.
- The heart, blood, and blood vessels work together to carry oxygen and nutrients to body cells, carry waste away from body cells, protect against disease, and control bleeding.

Your Brain and Your Sense Organs

Students will learn that:

- Your brain interprets information that it receives from the eyes, ears, nose, tongue, and skin.
- Eyes gather information when light travels through the eye and is focused on the retina.
- Ears change sound waves into vibrations that stimulate a nerve.

SCOPE AND SEQUENCE *

Trimester I

Earth Science

Chapters 6, 7, 8, 9

Trimester II

Physical Science

Chapters 11, 13,

Space and Technology

Chapters 17, 18

Trimester

Life Science

Chapters 1, 2, 3, 5

**Note that the order in scope and sequence is subject to change during the school year.*

HOMEWORK POLICY

Students are assigned readings from their textbooks, which are accompanied by questions. They also have a workbook and are given work sheets that they have to complete. Homework is not on a daily basis but on a weekly basis.

ASSESSMENT

Assessment is ongoing, both formal and informal.

Students are:

- Required to hand in regular homework assignments.
- Weekly quizzes
- Chapter tests
- Unit tests
- Individual projects
- Class participation

RESOURCES

The grade 4-science program is based on *Science* by Scott, Foresman, 2006 edition. The program includes student workbooks, enrichment activities and textbook

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