Sager Classical Academy
Scope and Sequence
5th Grade

Reading Lists

Literature:

1. *The Magician's Nephew* by C.S. Lewis
2. *Walk the World's Rim* by Betty Baker
3. *The Witch of Blackbird Pond* by Elizabeth George Speare
4. *Amos Fortune, Free Man* by Elizabeth Yates
5. *Johnny Tremain* by Esther Forbes
6. *Anne of Green Gables* by L.M. Montgomery
7. *The Boy in the Alamo* by Margaret Cousins
8. Answering the Cry for Freedom: *Stories of African Americans and the American Revolution* by Gretchen Woelfle

Poetry Memorized

Students will:

1. Memorize various poems and grammars.

Texts:

1. *Jabberwocky* by Lewis Carroll
2. The Bill of Rights (the first ten amendments)
3. The thirteen colonies song
4. The fifty states and capitals (*Tour the States* by Renald Francoeur)
5. The scientific method
6. *Television* by Roald Dahl
7. Various Latin grammars (conjugations, declinations, etc.)
8. Various grammatical English grammars (parts of speech, parts of a sentence, prepositions, etc.)
9. *Liberty Bell*, Anonymous

Reading/Literature

Students will:

1. Practice reading skills daily, with and without a partner, orally and silently.
2. Answer comprehension questions over independent and group reading.
3. Comprehend the literal and inferential meaning in a written work through group discussions and practicing contextual study.
4. Evaluate characters and ideas in a limited way as to determine whether they are in line with basic biblical values and principles. This includes being able to determine whether a character is worthy of imitation by the student.
5. Identify the setting, characters, and basic plot of a given story or book.
6. Recall the qualities of the characters in stories and recognize those that are worth admiring.
7. Express a worthwhile opinion for liking or disliking a particular book.
8. Recognize and identify genres by the style of the literature.
9. Complete several kinds of oral presentations, e.g., drama, oral reading, etc., in front of the class.
10. Demonstrate a love of reading that manifests itself by showing interest in and ability to comprehend and enjoy books with increasing difficulty and complexity.

Grammar

Students will:

1. Recognize, analyze, and practice using the eight parts of speech.
2. Recognize, analyze, and practice using the parts of a sentence.
3. Recognize, analyze and practice using the four types of sentences.
4. Recognize different types of verbs.
5. Recognize and practice different uses of commas.
6. Diagram sentences.

Latin

Students will:

1. Practice recognizing Latin vocabulary found in *Latina Christiana Student Workbook, Fourth Edition* by Cheryl Lowe.
2. Practice recognizing English derivatives of Latin.
3. Decline nouns.
4. Conjugate verbs.
5. Translate simple sentences.

Spelling and Dictation

Students will:

1. Learn and apply the rules found in *Logic of English: Essentials*
2. Accurately spell all words found in assigned spelling lists.
3. Accurately spell all words found in assigned spelling lists within dictated contextual sentences.

Handwriting

Students will:

1. Write neatly using the cursive alphabet in all school compositions.
2. Practice cursive form and structure daily using *Classically Cursive 3.*

Writing: IEW

Students will:

1. Understand the purposes of writing, and writing well.
2. Practice different genres of writing - prose, poetry, personal profile, book review, memoir
3. Retell narrative stories in their own words.
4. Make outlines before writing compositions (keyword outline).

5. Write from outlines.
6. Write compositions using -ly adverbs, who/which clauses, strong verbs, adverb clauses (when, while, where, as, since, if, although, because), and quality adjectives.
7. Write a strong topic sentence and conclusion sentence.
8. Make strong word choices within their compositions.
9. Use vocabulary words within their compositions.
10. Vary their sentence structures.

History/Geography

Students will:

1. Study the history of various parts of the world from 1600 until 1850.
2. Learn about the divine right to rule.
3. Observe and understand colonization.
4. Observe and understand colonialism.
5. Observe and understand representative government.
6. Observe and understand the end of slavery and its repercussions.
7. Review processes and vocabulary of the three branches of government, including the Preamble and the Bill of Rights.
8. Identify the main contributors and recognize the effects of their leadership on the world during their time period.
9. Locate important information on maps in relation to the time period and notice how the world may or may not have changed over time.
10. Locate thirteen colonies on a map.
11. Use extension activities to further understanding.

Science

Students will:

1. Read about the life of Isaac Newton.

2. Perform various experiments that led to Newton's formation as a scientist (e.g., creating a sundial, mapping orbits, playing with prisms to see light refract the color spectrum, etc.).
3. Learn and understand Newton's Laws of Motion, testing them with activities and experiments.
4. Read about Louis Pasteur's findings in microbiology.
5. Learn the two types of cells, eukaryotic (animal and plant) and prokaryotic (microorganisms), along with their structures and functions.
6. Perform experiments and engage in activities that deepen understanding of microorganisms and cell structure and function (e.g., blow up a balloon with yeast, microbe gardens, microorganisms in my lunch, dioramas of the two types of cells, comparing the sizes of microorganisms, etc.).
7. Read about women scientists who lived during our historical timeline and/or who contributed to areas touched on by Isaac Newton, Louis Pasteur, and other notable figures.

Texts: *Isaac Newton: The Scientist Who Changed Everything* by Philip Steele, *Pasteur's Fight Against Microbes* by Beverly Birch, *Women in Science: 50 Fearless Pioneers Who Changed the World* by Rachel Ignotofsky

Math

Students will:

1. Add, subtract, multiply, and divide whole numbers and money.
2. Understand and use the commutative property.
3. Recognize and use fact families.
4. Add, subtract, multiply, divide, reduce, solve "equal groups" stories, use exponents, and find common denominators with fractions.
5. Add, subtract, multiply, divide, and simplify mixed numbers.
6. Write mixed numbers as improper fractions.
7. Use inverse operations to find missing numbers in addition, subtraction, multiplication, division, fractions, and decimal problems.
8. Use order of operations (parenthesis, exponents, multiplication, division, addition, subtraction).
9. Understand and use the associative property.
10. Recognize and identify lines, segments, rays, planes, parallel lines, intersections, perpendicular lines, oblique lines, vertexes, right angles, acute angles, and obtuse angles.

11. Calculate the perimeter and area of various shapes.
12. Use a number line to recognize integers, order and compare whole numbers and negative numbers, find fractions and mixed numbers, and locate decimals (tenths).
13. Use Fahrenheit and Celsius scales to calculate.
14. Solve word problems.
15. Recognize value through trillions, written in numbers and in words.
16. Recognize and solve comparison problems.
17. Round, estimate, and find the average of whole numbers.
18. Display qualitative and quantitative data in various forms (line graphs, circle graphs, frequency tables, histograms, and surveys).
19. Recognize and find factors, prime numbers, and multiples.
20. Recognize the measurements of a circle: circumference, diameter, and radius.
21. Solve problems using least common multiples, reciprocals, chance, and probability.
22. Write numbers using expanded notation and use expanded notation with exponents.
23. Write percentages and decimal numbers as fractions.
24. Recognize, read, and write decimal place values.
25. Simplify, compare, divide, and round decimal numbers.
26. Square numbers, use square roots, and estimate square roots.
27. Solve equivalent division problems.
28. Mentally multiply and divide decimal numbers by 10 and by 100.
29. Calculate circumference using pi.
30. Find the mean, median, mode, and range.
31. Recognize and classify different polygons, parallelograms, quadrilaterals, and triangles.
32. Recognize the difference between composite numbers and prime numbers.
33. Divide by prime numbers.
34. Recognize and solve problems with complementary and supplementary angles.
35. Use the coordinate plane.
36. Learn capacity (U.S. Customary System and Metric System).
37. Use scale factor to solve ratio problems.
38. Find the volume of a rectangular prism.
39. Solve proportion equations and use proportions to solve ratio problems.
40. Recognize and use geometric formulas.