The Vanguard School Junior High
7th grade

English

Literature
- Introductory analysis
- Spelling and vocabulary derived from literature
- Selections
    - *Johnny Tremain* by Esther Forbes
    - "The Legend of Sleepy Hollow" and "Rip Van Winkle" by Washington Irving
    - *A Christmas Carol* by Charles Dickens
    - *The Pearl* by John Steinbeck
    - Either *A Midsummer Night's Dream* or *Much Ado About Nothing* by William Shakespeare
    - *The Time Machine* by H.G. Wells

Writing and Grammar
- *Warriner's English Grammar and Composition*
- Parts of speech to develop descriptive, vivid writing
- Prepositional and participial phrases for sentence fluency and style
- Independent and subordinate clauses for combining sentences
- Bi-weekly composition practice and instruction

Speeches

Poetry

Latin
- Latin IA
- Latin IIA

Science

Life-Structure & Function
- Classification
- Cell Structure, function, and division
- Genetics
- The environment and change over time

From Bacteria to Plants and Animals
- Bacteria and viruses
- Protists and fungi
- Plant processes and reproduction
- Animal Structure and function

Human Body Systems
- Digestion and excretion
- Respiration and circulation
- Immunity and disease

Interactions of Life
- Population and communities
- Biomes and ecosystems

History

Rise of the American Nation
- Exploration
- Colonialism in the Western hemisphere
- French and Indian War
- Reasons/cause for Revolutionary War
- Declaration of Independence
- Revolutionary War
- Articles of Confederation
- US Constitution
- Washington and Jefferson presidency
- Louisiana Purchase
- Lewis and Clark
- War of 1812
- Monroe Doctrine
- Early American Industrial Revolution
- Growth of Southern way of life
- Slavery and abolition movement
- Westward expansion
- Early 1800's political compromise
- Civil War

Math- Saxon

Course 2
- Proficiency in operation
- Simple ratios
- One and two step word problems
- Area of triangles, rectangles, and irregular shapes

Course 3
- Ratios and proportions
- Percent increase, tax, tips, and discounts
- Area and perimeter of all basic shapes
- Area and circumference of circles
- Scientific notation
- Simplify expressions, solve equations
- Graph a line in slope intercept form

Algebra I
- Graph functions
- Simplify complex expressions
- Solve complex equations
- Factor trinomials
- Real world word problems
- Statistics and probability

English
Novels

- *To Kill A Mockingbird* by Harper Lee
- *A Midsummer Night's Dream* or *Much Ado About Nothing* by William Shakespeare
- *Animal Farm* by George Orwell
- *Ivanhoe* by Sir Walter Scott
- Various short stories

Grammar

- Parts of speech
- Parts of a sentence
- Prepositional and verbal phrases
- Independent and subordinate clauses
- Types of sentences
- Sentence diagramming
- Subject-verb and pronoun agreement
- Cases of Pronouns
- Correct use of modifier

Spelling and Vocabulary derived from literature
Weekly composition practice and instruction
Speeches
Poetry

Latin

- Latin IB
- Latin IIB (in 2021-22)

Science
Chemical Building Blocks

- Matter
- Periodic Table

Chemical Interactions

- Basic balancing equations
- States of matter
- Atoms, elements, and chemical bonds
- Chemical reactions and equations

Motion, Forces, and Energy

- Newton's laws
- Fluid Forces
- Work, power, and simple machines
- Energy and energy resources
- Thermal energy

Waves, Electricity, and Magnetism

- Sound and light waves
- Electricity
- Electromagnetism

History
Out of Many

- Reconstruction after Civil War
- Immigration and political reform
- Continued Westward expansion
- Rise of labor unions
- Industrial expansion and reform
- Latin American policies and politics
- World War I
- Roaring 20's and Great Depression
- American isolationism
- World War II
- Rise of American international power
- Space race and social reform
- Early Cold War
- Vietnam and Watergate
- Growing equality in America/civil rights
- Late Cold War
- 9/11 events

Math- Saxon
Course 3

- Ratios and proportions
- Percent increase, tax, tips, and discounts
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- Area and circumference of circles
- Scientific notation
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Algebra I

- Graph functions
- Simplify complex expressions
- Solve complex equations
- Factor trinomials
- Real world word problems
- Statistics and probability

Algebra II

- Linear functions
- Matrices
- Polynomials
- Exponential and logarithmic functions
- Trigonometry
- Quadratic functions