



Home Grade 10 Curriculum

Profile Faculty

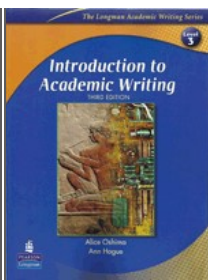
The American School, founded in 1995, follows the typical American curriculum used in most schools in the United States from pre-school to grade twelve. We believe that the environment is enhanced when students are challenged by quality education.

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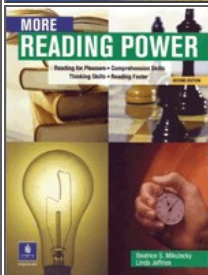
## Grade 10 Curriculum

	<p><b>Math</b></p> <ol style="list-style-type: none"> <li>1. Expressions and Equations</li> <li>2. Operations with Negative Numbers</li> <li>3. Axioms and Other Properties</li> <li>4. Harder Equations</li> <li>5. Some Operations with Polynomials and Radicals</li> <li>6. Quadratic Equations</li> <li>7. Expressions and Equations Containing Two Variables</li> <li>8. Linear Functions, Scattered Data, and Probability</li> <li>9. Properties of Exponents</li> <li>10. More Operations with Polynomials</li> <li>11. Rational Algebraic Expressions</li> <li>12. Radical Algebraic Expressions</li> <li>13. Inequalities</li> <li>14. Functions and Advanced Topics</li> </ol>
	<p><b>Geometry:</b></p> <ul style="list-style-type: none"> <li>Chapter 1: Tools of Geometry</li> <li>Chapter 2: Investigating Geometric Figures</li> <li>Chapter 3: Transformations: Shapes in Motion</li> <li>Chapter 4: Triangle Relationships</li> <li>Chapter 5: Measuring in the Plane</li> <li>Chapter 6: Measuring in Space</li> <li>Chapter 7: Reasoning and Parallel Lines</li> <li>Chapter 8: Proving Triangles Congruent</li> <li>Chapter 9: Quadrilaterals</li> <li>Chapter 10: Similarity</li> <li>Chapter 11: Right Triangle Trigonometry</li> <li>Chapter 12: Chords, Secants, and Tangents</li> </ul>
	<p><b>World Literature:</b></p> <ul style="list-style-type: none"> <li>Unit 1: Priorities</li> <li>Unit 2: The Unexpected</li> <li>Unit 3: Insights</li> <li>Unit 4: Conflicts</li> <li>Unit 5: Reality</li> <li>Unit 6: Relationships</li> </ul>
	<p><b>Academic Writing:</b></p> <ul style="list-style-type: none"> <li>Part 1: The Paragraph</li> <li>Chapter 1: Paragraph Format</li> <li>Chapter 2: Narrative Paragraphs</li> <li>Chapter 3: Paragraph Structure</li> <li>Chapter 4: Descriptive Paragraphs</li> <li>Chapter 5: Logical Division of Ideas</li> <li>Chapter 6: Process Paragraphs</li> <li>Chapter 7: Comparison / Contrast Paragraphs</li> </ul>

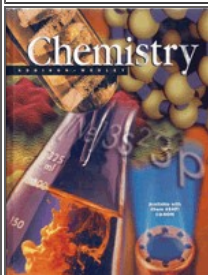
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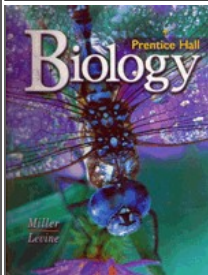
Chapter 8: Definition Paragraphs  
Part 2: The Essay  
Chapter 9: Essay Organization  
Chapter 10: Opinion Essays



Reading:  
Part 1: Reading for Pleasure  
Part 2: Comprehension Skills  
Unit 1: Previewing  
Unit 2: Scanning  
Unit 3: Skimming  
Unit 4: Using Vocabulary Knowledge for Effective Reading  
Unit 5: Making Inferences  
Unit 6: Finding Topics  
Unit 7: Discovering Topics  
Unit 8: Understanding Main Ideas  
Unit 9: Identifying Patterns of Organization  
Unit 10: Summarizing  
Part 3: Thinking Skills  
Part 4: Reading Faster  
Unit 1: Maria Montessori  
Unit 2: Africa Today  
Unit 3: Global Issues

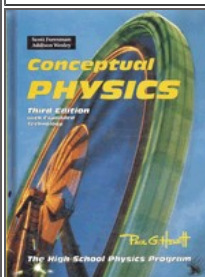


Chemistry:  
Chapter 1: Introduction to Chemistry  
Chapter 2: Matter and Change  
Chapter 3: Scientific Measurement  
Chapter 4: Problem Solving in Chemistry  
Chapter 5: Atomic Structure and the Periodic Table  
Chapter 6: Chemical Names and Formulas  
Chapter 7: Chemical Quantities  
Chapter 8: Chemical Reactions  
Chapter 9: Stoichiometry  
Chapter 10: States of Matter  
Chapter 11: Thermochemistry Heat and Chemical Change  
Chapter 12: The Behavior of Gases  
Chapter 13: Electrons in Atoms  
Chapter 14: Chemical Periodicity  
Chapter 15: Ionic Bonding and Ionic Compounds  
Chapter 16: Covalent Bonding  
Chapter 17: Water and Aqueous Systems  
Chapter 18: Solutions  
Chapter 19: Reaction Rates and Equilibrium  
Chapter 20: Acids and Bases  
Chapter 21: Neutralization  
Chapter 22: Oxidation-Reduction Reactions  
Chapter 23: Electrochemistry  
Chapter 24: The Chemistry of Metals and Nonmetals  
Chapter 25: Hydrocarbon Compounds  
Chapter 26: Functional Groups and Organic Reactions  
Chapter 27: The Chemistry of Life  
Chapter 28: Nuclear Chemistry



Biology:  
The Science of Biology  
The Chemistry of Life  
Ecology  
The Biosphere  
Ecosystems and Communities  
Populations  
Humans in the Biosphere  
Cell Structure and Function  
Photosynthesis  
Cellular Respiration  
Cell Growth and Division  
Introduction to Genetics

**DNA and RNA**  
**Genetic Engineering**  
**The Human Genome**  
**Classification**  
**Bacteria and Viruses**  
**Protists**  
**Fungi**  
**Plant Diversity**  
**Roots, Stems, and Leaves**  
**Reproduction of Seed Plants**  
**Plant Responses and Adaptations**  
**Invertebrates**  
**Sponges and Cnidarians**  
**Worms and Mollusks**  
**Arthropods and Echinoderms**  
**Comparing Invertebrates**  
**Nonvertebrate Chordates, Fishes, and Amphibians**  
**Reptiles and Birds**  
**Mammals**  
**Comparing Chordates**  
**Animal Behavior**  
**The Human Body**  
**The Nervous System**



**Physics:**  
**1. About Science**  
**Unit 1: Mechanics**  
**2. Linear Motion**  
**3. Projectile Motion**  
**4. Newton's First Law of Motion - Inertia**  
**5. Newton's Second Law of Motion - Force and Acceleration**  
**6. Newton's Second Law of Motion - Action and Reaction**  
**7. Momentum**  
**8. Energy**  
**9. Circular Motion**  
**10. Center of Gravity**  
**11. Rotational Mechanics**  
**12. Universal Gravitation**  
**13. Gravitational Interactions**  
**14. Satellite Motion**  
**15. Special Relativity - Space and Time**  
**16. Special Relativity - Length, Momentum, and Energy**  
**Unit 2: Properties of Matter**  
**17. The Atomic Nature of Matter**  
**18. Solids**  
**19. Liquids**  
**20. Gases**  
**Unit 3: Heat**  
**21. Temperature, Heat, and Expansion**  
**22. Heat Transfer**  
**23. Change of Phase**  
**24. Thermodynamics**  
**Unit 5: Sound and Light**  
**25. Vibrations and Waves**  
**26. Sound**  
**27. Light**  
**28. Color**  
**29. Reflection and Refraction**  
**30. Lenses**  
**31. Diffraction and Interference**  
**Unit 5: Electricity Magnetism**  
**32. Electrostatics**  
**33. Electric Fields and Potential**  
**34. Electric Current**  
**35. Electric Circuits**  
**36. Magnetism**  
**37. Electromagnetic Induction**  
**Unit 6: Atomic and Nuclear Physics**  
**38. The Atom and the Quantum**  
**39. The Atomic Nucleus and Radioactivity**  
**40. Nuclear Fission and Fusion**

