

Page-Turners & Big Ideas
Eighth Grade
Quarter Three

English
Core Knowledge Language Arts (CKLA)

Unit 6: *The Squatter & the Don*

Genre Focus: Novel

Writing Task: Informative Essay

- **Key Terms:** character arc, characterization, conflict, dialogue, dramatic irony, figurative language, foreshadowing, literary device, metaphor, mood, plot, point of view, simile, theme

Unit 7: *The Importance of Being Earnest*

Genre Focus: Drama

Writing Task: Short Play

- **Key Terms:** act, characterization, dialogue, dramatic irony, foreshadowing, irony, literary device, mood, perspective, pun, scene, setting, theme

Math
Math 8

Unit 5: Functions & Volume

- **Key Terms:** function, input, output, rule, independent variable, dependent variable, function notation, equation, table, graph, coordinate plane, ordered pair, linear function, rate of change, initial value, volume, cubic unit, unit cube, prism, rectangular prism, cylinder, base, height, area of base, cross section, formula, measurement, units

Unit 7: Exponents & Scientific Notation

- **Key Terms:** exponent, power, base, exponentiation, repeated multiplication, power of ten, equivalent expressions, evaluate, standard form, scientific notation, coefficient, exponent of ten, positive exponent, negative exponent, zero exponent, magnitude, order of magnitude, estimate, reasonableness

Algebra 1

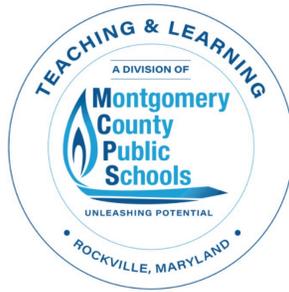
Unit 6: Introduction to Quadratic Functions

- **Key Terms:** Function, function notation, linear growth, exponential growth, quadratic growth, quadratic function, pattern growth, rate of change, table of values, graph, equation, projectile motion, free fall, height versus time, initial height, initial velocity, gravity, coefficients, quadratic term, linear term, constant term, standard form, factored form, vertex form, x-intercepts, zeros, roots, y-intercept, vertex, axis of symmetry, opens upward, opens downward, maximum value, minimum value, symmetry, horizontal translation, vertical translation, vertical stretch, area models, revenue models, graphing technology.

Honors Geometry

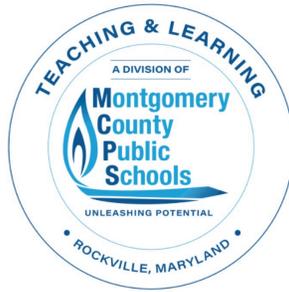
Unit 4: Right Triangle Trigonometry

- **Key Terms:** Right triangle, acute angle,



Page-Turners & Big Ideas

	<p>hypotenuse, opposite side, adjacent side, trigonometric ratio, sine, cosine, tangent, SOHCAHTOA, complementary angles, inverse trigonometric functions, arcsine, arccosine, arctangent, angle of elevation, angle of depression, 45-45-90 triangle, 30-60-90 triangle, ratios in right triangles, estimating angles, estimating side lengths, applying trigonometry, height problems, distance problems.</p> <p>Unit 5: Solid Geometry</p> <ul style="list-style-type: none"> • Key Terms: Three-dimensional figures, solids of rotation, axis of rotation, prism, pyramid, cylinder, cone, sphere, cross section, dilation, scale factor, surface area, volume, composite solids, right solids, oblique solids, Cavalieri’s Principle, density, cube root, scaling solids, scaling area, scaling volume, prisms and cylinders, pyramids and cones, modeling with volume and surface area. <p><i>**The Board of Education adopted the mathematics curriculum, “Illustrative Math” by Imagine Learning, for the above courses.</i></p> <p><i>**The content for the student workbooks is sourced from the Illustrative Math curriculum.</i></p>
<p>Science</p> <p>Unit 3: Energy, Forces, and Motion</p> <p>In this unit, students explore how different forces make objects move and use math to measure their speed and acceleration. Students also learn about Newton’s Laws of Motion and different types of energy and use what they learned to build and launch their own water bottle rockets.</p> <ul style="list-style-type: none"> • Key Terms: Acceleration, Action, Balanced Force, Distance, Force, Friction, Frame of Reference, Inertia, Kinetic, Law, Gravity, Mass, Motion, Reaction, Reference Point, Speed, Static Friction, Time, Unbalanced Force, Velocity 	<p>Social Studies</p> <p>United States History, Colonialism - 1900</p> <p>Geographic and Economic Change Shape the Nation, 1820-1853</p> <p>Students learn how there are costs and benefits to expansion and how conflict can result when people try to protect or gain rights and resources. Students evaluate the costs and benefits of geographic, economic, and political expansion from 1820-1853 by studying Native American removal, the spread of slavery, Jacksonian democracy, industrialization, the increase of immigration, and the rise of the Abolition and Women’s rights movements.</p>



Page-Turners & Big Ideas

	<ul style="list-style-type: none">● Key Terms: Indian Removal Act, land acquisition, Manifest Destiny, Trail of Tears, factory system, Lowell Mills, nativism, cotton gin, industrialization, abolitionist, Underground Railroad <p>Text: <i>United States History</i> by Holt McDougal (Additional text for American Studies 8 ONLY: <i>A Misplaced Massacre: Struggling Over the Memory of Sand Creek</i>)</p> <p>Note: Social Studies standards are integrated throughout the unit. The standards are History, Civics, Peoples of the Nations and World, Economics, Geography, and Social Studies Skills.</p>
--	--

[These](#) supplemental instructional materials might also be included in 8th grade. Supplemental materials are additional approved books for teachers to use to teach a topic. If any listed instructional material conflicts with your family's sincerely held religious beliefs, you may request your child's excusal by submitting [this request form](#). For additional information, visit [our website](#).

Families: Put this on your refrigerator and review at home!