

Page-Turners & Big Ideas

11th Grade Quarter One

English

Themes (Select one each for MP1 & MP2):

- Class in America
- Education and
- Learning
- Humor and Society
- Race, Culture, and Identity
- Stories of Place

Texts (will depend on theme selected): *A Hope in the Unseen, A Lesson Before Dying, A Place for Us, Adventures of Huckleberry Finn, All the Pretty Horses, Between the World and Me, Catch-22, China Men, Citizen Illegal, Counting Descent, Donald Duk, Eating Animals, Fences, Girl in Translation, The Heart of a Woman, House Made of Dawn, Hunger for Memory, I Know Why the Caged Bird Sings, Into the Beautiful North, Into the Wild, Invisible Man, Like Water for Chocolate, Little Fires Everywhere, Native Son, Nickel and Dime, The Nickel Boys, Notes of a Native Son, Outliers, Pilgrim at Tinker Creek, Roots, Seven Arrows, Song Yet Sung, Tell Me How It Ends, The Accidental Asian, The Alchemist, The Autobiography of Malcolm X by Malcolm X and Alex Haley, The Color of Water, The Glass Castle, The Great Gatsby, The Help, The Old Man and the Sea, The Other Wes Moore, The Shipping News, The Sirens of Titan, We Were Eight Years in Power, The Women of Brewster Place, Typical American, Walden*

- **Key Terms:** narrative, scene, inspiration, imagery, characterization, setting, plot, tone, mood, pacing, figurative language, symbolism, perspective, point of view, diction, connotation, denotation, style, rhetoric, persuasive techniques, ethos, pathos, logos, structure, voice, syntax, allusion, juxtaposition, motif, central idea, theme, connection, synthesis, comparison, contrast, historical context, cultural context, credibility, bias, reliability, validity, source evaluation, annotated bibliography, citation, paraphrase, quotation, objective summary, argument, claim, counterclaim, reasoning, evidence, analysis, interpretation,

Mathematics

2Yr Algebra 2 AB

Functions and Their Inverses

- **Key Terms:** asymptote, end behavior, zero, factor, multiplicity, coefficient, polynomial, inverse, minimum, maximum, turning points, rational function, logarithmic function

****No core instructional textbook**

Algebra 2 and Honors Algebra 2

Functions and Their Inverses

- **Key Terms:** asymptote, end behavior, zero, factor, multiplicity, polynomial, inverse, minimum, maximum, turning points, rational function, logarithmic function

****No core instructional textbook**

Precalculus and Honors Precalculus

Polynomials, Power, and Rational Functions

- **Key Terms:** piece-wise defined function, rational functions, polynomial functions, radical functions, limit notation, rational inequalities, polynomial inequality, partial fraction decomposition, complex fraction

****MCPS uses two textbooks county-wide in Precalculus:**

- "Precalculus: Graphical, Numerical, Algebraic," Addison Wesley, Copyright 2007
- "Advanced Mathematical Concepts," Glencoe, Copyright 2006

Statistics and Math Modeling

Logic

- **Key Terms:** Modus Tollens, Modus Ponens, Contrapositive, Tautology, Converse Syllogism

Matrices

- **Key Terms:** row, column, inverse

Mathematical Decisions

- **Key Terms:** voting poll laws

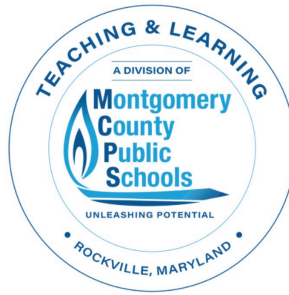
****No core instructional textbook**

Honors Statistics

Analyzing One-Variable Data

- **Key Terms:** Statistics, individual, variable, categorical variable, quantitative variable

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



Page-Turners & Big Ideas

interaction, integration, synthesis of ideas

Collecting Data

- **Key Terms:** Distribution, frequency table, symmetric, skew

Probability

- **Key Terms:** Simulations, Law of Large Numbers, probability model, complement rule, mutually exclusive, conditional probability, correlation & causation

***MCPS uses a countywide textbook for Honors Statistics, "Statistics and Probability with Applications," BFW, 3rd edition.*

Science

Astronomy with Physics

Interplanetary Motion

In this unit, students explore and investigate the motion, orbits, and forces of our planet and of objects within our solar system.

- **Key terms:** velocity, acceleration, friction, conservation of energy, kinetic energy, potential energy, energy transfer, system, solar system

Earth Systems and Sustainability

Space Systems

In this unit, students explore patterns caused by Earth's movement in the solar system.

- **Key terms:** universe, galaxy, star, spectra, fusion, fission, protostar, light-year, gravity, constellation, revolution, redshift, expansion

Biology

Independent Relationships in Ecosystems

In this unit, students explore how living things and their environments stay in balance, and what happens when that balance is disrupted.

- **Key terms:** limiting factor, predator-prey relationship, equilibrium, habitat destruction, pollution, climate change, invasive species, biodiversity, restoration Ecology, endangered species

Chemistry

Diversity of Elements

In this unit, students investigate the building blocks of matter and the forces that hold atoms together.

- **Key terms:** compound, nuclear force, radioactive decay, nuclear fission, nuclear fusion, electromagnetic (EM)

Social Studies

Modern World History: 1500 - Present

The Emergence of the Global Age

Students learn how global empires emerged as expanding trade networks connected the world and examine the political, economic, and social impacts, including how people responded to new cultural interactions.

- **Key Terms:** Major trade routes, Columbian Exchange, Triangular Trade, joint stock company, encomienda system, devshirme system, millet, cultural diffusion, cultural syncretism, janissaries

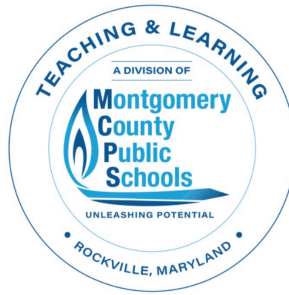
Global Revolutions and Reactions

Students learn how new religious ideas challenged existing religious and political systems globally, examine how societies responded to new scientific knowledge, and learn how new ideas spread to unite people in revolution.

- **Key Terms:** Ninety-Five Theses, Protestant, Catholic Church, Counter Reformation, Jesuits, Inquisition, Sunni Islam, Wahhabi Movement, geocentric vs. heliocentric theories, scientific method, Isaac Newton's Law of Gravity, Dutch Learning, philosophes, social contract, separation of powers, abolitionist movement, women's suffrage, nationalism, nation-state, realpolitik

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.

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



Page-Turners & Big Ideas

radiation, solar flares, oceanic/continental crust, mid-ocean ridges, meteorites, impact craters

Physics A

Forces, Motion, and Interactions

In this unit, students explore how objects interact and how energy moves within and between systems.

- **Key terms:** force, motion, velocity, acceleration, friction, gravity, stability, energy, conservation of Energy, kinetic energy, potential energy, energy transfer

***No core instructional textbook*

[These](#) supplemental instructional materials might also be included in eleventh grade. Supplemental materials are additional approved books for teachers to use to teach a topic. Ask your child's teacher for more information about supplemental materials used in your child's classroom. 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!