

Devereux @ Waring Curriculum

Theme: Revolutions

Our Guiding Questions for the Year: What is a revolution? What causes a revolution? Are revolutions good? Bad? What are the effects, both short-term and long-term, of a revolution?

Unit 1: Exploration and Sea Travel as Technological Revolution

Literature

The True Confessions of Charlotte Doyle by Avi

Poem

“A Sailor’s Song” by Paul Laurence Dunbar

History

- Navigation: tools and technological advancements
- Changes in shipbuilding and travel
- Explorers of note
- Search for the Northwest Passage
- China and the Spice Trade
- America: discovering a new land
- Consequences for Native Americans

Science

- Galileo and Observational Astronomy
- Tides
- Phases of the Moon
- Stars and the Milky Way

Math

- Navigating numbers, measurements, and conversions
- Distance and depth

Enrichment Activities

- Parts of a ship

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- Nautical knots
- Songs of the Sea
- Tea-stained letters
- Food on board: sailor's duff
- Moon observations

Field Trip

Essex Shipbuilding Museum

Unit 2: The American Revolution

Literature

Chains by Laurie Halse Anderson

Poem

"Paul Revere's Ride" by Henry Wadsworth Longfellow

History

- French and Indian War
- Causes of the Revolution
- Major battles of the Revolution
- Outcome and consequences of the Revolution
- The Declaration of Independence and the formation of a nation
- U.S. Government then and now

Science

- Electricity
 - Benjamin Franklin, Alessandro Volta, Nikola Tesla, Michael Faraday
- Conductors and Resistors
- Batteries
- Simple circuits

Math

Basic formulas for electrical circuits

Enrichment Activities

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- Revolution timeline
- Cooking like Colonial Americans: hardtack
- Colonial American games and pastimes
- Making Flags: Betsy Ross and Flags of the Revolution
- Using voltmeters to test conductivity and resistance

Field Trips

- Freedom Trail and Paul Revere's House
- Minute Man National Park

Unit 3: The Industrial Revolution

Literature

Lyddie by Katherine Paterson

Poem

"The Tables Turned" by William Wordsworth

History

- Early factory systems
- Great Britain and the Spinning Jenny
- The rise of the middle class
- The Industrial Revolution in America
- Iron and Steel Mills
- The Textile Industry

Transportation and Technological Revolution

- Steamboats and Railroads
- Labor Unions and Workers' Wages

Science

- Nonrenewable Energy and Resources
- Coal, Oil, Natural Gas
- Pollution and Industry
- Fossil Fuels

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Math

Economy of Scale: multiplication and division

Enrichment Activities

- Learn to weave
- “Invention Convention”
- Oil drilling activity

Field Trip

Lowell National Park

Unit 4: Social Revolutions

Literature

- Susan B. Anthony Champion of Women’s Rights by Helen Albee Monsell
- Through My Eyes by Ruby Bridges

Poem

“The Suffragettes” by Charlotte Perkins Gilman

History

- Feminist Movement
 - Women’s suffrage and political equality
 - Seneca Falls Convention
 - The 19th Amendment

African American Civil Rights Movement

- Civil Resistance and Civil Disobedience
- Brown V. Board of Education
- Rosa Parks and the Montgomery Buss Boycott
- Martin Luther King Jr.
- Civil Rights Act of 1964

Science

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- Conservation Movement
- Rachel Carson and the fight against DDT
- Pesticides and Herbicides
- Changes in commercial farming
- The EPA

Math

Orders of Magnitude: fractions, decimals, and biomagnification

Enrichment Activities

- Suffragette oral report
- Peaceful protesting activity
- Rachel Carson documentary
- Food web and biomagnification activity

Field Trip

- Anthony Homestead, Adams, MA
- The Food Project

Unit 5: The French Revolution

Literature

In The Reign of Terror: The Adventures of a Westminster Boy by G. A. Henry

Poem: "The French Revolution" by William Blake

History

- Causes of the French Revolution
- The French Estate system
- March to Versailles
- The Fall of the Bastille
- The Jacobins and the Reign of Terror
- La Guillotine
- The French Revolution and American Influence
- Effects of the Revolution and the rise of Nationalism

Science

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- Antoine Lavoisier and the Chemical Revolution
- Properties of matter
- Conservation of mass

Math

Antoine Lavoisier: Measurements and the Metric System

Enrichment Activities

- Estate activity
- French Revolution comic book
- Sugar water: solids, liquids, and solutions

Field Trip

Abbot Hall

Unit 6: Artistic Revolution: Impressionism

Literature:

Baudelaire, Mallarme, and other Impressionist poets of the time

Poem

“The Ruined Garden” by Charles Baudelaire

History

- Inspiration and influence
- Painting and Technique
- Impressionism in America
- Literary response

Science

- Properties of Light and the Impressionist Movement
- The Light Spectrum
- Reflection and Refraction

Math

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The artist's perspective: shapes, lines, and angles

Enrichment Activities

- Learn to paint like the Impressionists
- Debussy and Baudelaire poetry and musical composition exercise
- Playing with prisms

Field Trip

MFA

Unit 7: Musical Revolution: Mozart and the Classics

Literature

Bach, Beethoven, and the Boys by David W. Barbers

Poem

“The Master of Music” by Henry Van Dyke

History

- Inspiration Beethoven—the world's first celebrity
- Major 18th Century Composers and their individual revolutionary influence
- Popular Response
- Connection between Music and Literature
- Revolutionary Musicians of Today

Science

- Properties of Sound
- Frequency and amplitude
- Ear structure: How Do We Hear Sounds?

Math

- Graphing: Representing the art and science of sound

Enrichment Activities

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- Composition activity
- Music theory
- Testing frequency with musical instruments

Field Trip

Boston Symphony Orchestra

Theme: Traditions

Our guiding questions: What is a tradition? How does something become a tradition? How do traditions change (or remain the same) over time?

Unit 1: Ancient Traditions

Literature

Panchatantra (Ancient Indian Fables)

Poem

Excerpts from “Flower Song” (Ancient Mayan Poem)

History

- Harappa and the Ancient Indus Civilization
- Ancient Civilizations of South America
- Ancient Religious Traditions
- Creation Myths
- Oral Traditions
- Sanskrit and ancient storytelling

Science

- Early Calendars: time and record keeping
- Tracking lunar and solar patterns
- Constellations and their myths

Math

Abacus: numbers and place values

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Enrichment Activities

- Write your own creation myth
- Sanskrit activity
- Ancient sundials

Field Trips

“Art of the Ancient World” Boston Museum of Fine Arts

Unit 2: Classical Traditions

Literature

Tales from the Odyssey Parts 1&2 by Mary Pope Osborne

Poem

“One Girl” by Sappho

History

- Classical Art
- Classical Architecture
- Classical Mythology
- Religious Traditions of the Classical Era

Science

- Socrates and scientific thought
- Aristotle and early classification

Math

Pythagoras and the Pythagorean Theorem

Enrichment Activities

- Re-create a model of traditional classical architecture
- Nuts and bolts classification activity

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Field Trips

Greek revival architecture in Boston: Quincy Market

Unit 3: Western Folk Traditions

Literature

- The Original Folk and Fairy Tales of the Brothers Grim
- The Complete Fairy Tales of Hans Christian Anderson
- The Complete Fairy Tales of Charles Perrault

Poem

“Fairy-tale Logic” by A. E. Stallings

History

- Fables, Folk Tales, Fairy Tales, and Legends
- Musical Traditions: Folksongs and Anthems
- Cultural Traditions

Science

- Science in Wonderland
- Using the Scientific Method to prove or disprove the reality of fairy tales

Math

Fairy Tale Math: estimations and measurements

Enrichment Activities

Write your own fable, folk tale, fairy tale, or legend

Field Trip

French Cultural Center in Boston

Unit 4: Native American Traditions

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Literature

In the Footsteps of Crazy Horse by Joseph M. Marshall III

Poem

“Navajo Night Chant”

History

- Native American Geography and Tribes
- Native American Culture
- Tribal Relations
- Oral Traditions
- Religious Beliefs
- Music of the People
- Native American Art
- Native Americans Today

Science

- Sustainable farming/living
- Organic farming
- Composting
- Buying local

Math

Geometry and the natural world

Enrichment Activities

- Telling stories with totem poles
- Native planting
- Composting
- Tracking Food: where does our food come from?

Field Trips

Plymouth Tour

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Unit 5: Changing Tradition: Civil War

Literature

The People Could Fly: American Black Folk Tales by Virginia Hamilton

Poem

“Oh Captain! My Captain!” By Walt Whitman

History

- The Origins of Slavery
- Triangular Trade
- Southern Traditions and Northern Traditions
- African American Traditions and Culture
- Influential People
- Major Battles
- Women and the War: Clara Barton and the Red Cross
- Changing the Constitution
- Reconstructing a Nation

Science

- Infections and Diseases
- Louis Pasteur and Robert Koch
- Germ Theory and Civil War medicine

Math

Soldier Risk and Survival: Ratios, Rates and Proportions

Enrichment Activities

- Songs of the Civil War
- Underground Railroad Simulation
- Agar plate and germ activity

Field Trips

- Commonwealth Museum
- Boston’s Black Heritage Trail

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Unit 6: Modern Traditions

Literature

How My Family Lives in America by Susan Kuklin

Poem

“One Today” by Richard Blanco

History:

- Globalization
- Multiculturalism
- “Modern Families”

Science:

- Going Green: Reduce, Reuse, Recycle
- Renewable Energy: Wind and Solar
- Climate Change and the Greenhouse Effect

Math:

- The Power of One and the Power of Many: multiply, divide, and conquer

Enrichment Activities:

- Sharing Familial Traditions with the Class
- Traditions at Devereux and Waring Schools
- Starting new traditions
- Cooking with solar power: Dutch Ovens
- Talk with Waring’s Environmental Club

Field Trips:

- Devereux School Campus
- Waring School Campus
- Solar Plant