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
Devereux @ Waring Curriculum

- 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
Devereux @ Waring Curriculum

- 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
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**
Devereux @ Waring Curriculum

- 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


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
Devereux @ Waring Curriculum

- 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**
Devereux @ Waring Curriculum

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**
Devereux @ Waring Curriculum

- 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
Devereux @ Waring Curriculum

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
Devereux @ Waring Curriculum

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
Devereux @ Waring Curriculum

**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
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
Devereux @ Waring Curriculum

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