### 4th Grade Year-Long Plan
#### First Nine Weeks

<table>
<thead>
<tr>
<th>Language Arts</th>
<th>Math</th>
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</table>
| **Novel**  
Robinson Crusoe | **INVESTIGATIONS**  
42 lessons | **Geography 4.1A**  
- Construct and interpret maps, graphs, diagrams, and charts  
- Read maps and globes using longitude, latitude, coordinates, & degrees  
- Introduce Prime Meridian, International Date Line, time zones  
- Read relief maps  
- Introduce Core Knowledge mountains and mountain ranges  
- Locate 7 continents, 4 oceans  
- Distinguish between continent, country, state, county, and city  
- Describe US regions and the Western Hemisphere  
- Discuss the Earth-Sun relationship | **Earth & Space Science - Geology**  
(HMS 4.1A)  
Earth structure  
Rock types  
CK:  
Volcanoes, earthquakes,  
Tsunamis, famous volcanoes,  
Geysers, mountain types,  
Weathering and erosion | **Elements of Art:**  
line, shape, form, space, texture, color, light, design, symmetry  
4.1A |
| **Poetry**  
“Afternoon on a Hill”  
“Clarence” | **Unit 1:**  
*Factors, Multiples, and Arrays*  
Inv 1 (5 lessons)  
Inv 2 (5 lessons)  
Inv 3 (4 lessons) | **Reference Skills 4.1B**  
**NM Geography 4.1C**  
- Regions  
- Rivers  
- Cities  
- Resources  
- Recognize that states and regions depend on each other  
- Geographic population factors | **Journey into Science Kit**  
**NM Earth Science**  
Students explore the tools and techniques of meteorologists, geologists, and astronomers in this unit. As meteorologists, they gather weather data and interpret weather maps. As geologists they learn to read the story of a rock and how to identify it. As astronomers, they experiment with lenses to understand simple telescopes and learn about the latest advances in astronomy.  
**Life Science (HMS 4.1B)**  
Body structure and systems  
Animal Adaptation,  
Food Chain  
Survival  
Botany—Roots, food chain, photosynthesis  
Cells  
On-going throughout year:  
**Scientific Thinking & Practice (HMS 4.5A)**  
**Science & Society (HMS4.5B)**  
**Journey into Science Kit**  
**Survival**  
What does it take for a plant or animal to survive? What behavioral or structural adaptations does it need to get food, reproduce, and avoid being eaten? How do communities of animals and plants work and what happens when something goes wrong? Students observe ants survive in a space-age habitat made from a nutrient gel. | **Explore and use art materials**  
4.1B  
**Create artwork**  
4.1C  
**Native American art of New Mexico**  
4.2A  
(No Core Knowledge paintings required this quarter.) |
| **Sayings**  
Run-of-the-mill  
Two wrongs don’t make a right. | **Unit 2:**  
*Describing the Shape of the Data*  
Inv 1 (5 lessons)  
Inv 2 (7 lessons)  
Inv 3 (5 lessons) |  |  |
| **Novel**  
Treasure Island | **Unit 3:**  
*Multiple Towers and Division Stories*  
Inv 1 (5 lessons)  
Inv 2 (6 lessons) | **Citizenship 4.1D** |  |
| **Poetry**  
“Things” |  |  |  |
| **Sayings for Treasure Island**  
As the crow flies  
Blow hot and cold  
Don’t put all your eggs in one basket.  
Shipshape |  |  |  |
| (See Theatre Arts Curriculum for performing arts integration ideas) |  |  |  |

Refer to HMS Grade Level Curriculum for an in-depth listing of skills to be taught throughout the year.  
July 2009
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<th>Language Arts</th>
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| **Novel**  
*The Legend of Sleepy Hollow*
*Rip Van Winkle*  
**Saying for *Rip Van Winkle***  
Once in a blue moon  
**Novel**  
Pollyanna  
**Poetry**  
“Life Doesn’t Frighten Me”  
“Monday’s Child is Fair of Face”  
**Sayings**  
Make hay while the sun shines.  
Make ends meet.  
Beauty is only skin deep.  
Break the ice.  
Half a loaf is better than none.  
Laugh and the world laughs with you.  
On the warpath  
(See Theatre Arts Curriculum for performing arts integration ideas) | **INVESTIGATIONS**  
35 lessons  
Unit 3: **Multiple Towers and Division Stories (cont.)**  
Inv 3 (4 lessons)  
Inv 4 (5 lessons)  
Unit 4: **Size, Shape, and Symmetry**  
Inv 1 (5 lessons)  
Inv 2 (5 lessons)  
Inv 3 (3 lessons)  
Inv 4 (7 lessons)  
Unit 5: **Landmarks and Large Numbers**  
Inv 1 (6 lessons) | **NM History 4.2A**  
**National, State, and Local Government 4.2B**  
**Citizenship 4.2C**  
**Life Science (HMS 4.2A)**  
Human body systems and organization (cells, tissues, organs, system, organism)  
**Core Knowledge**  
Circulatory System  
Respiratory System  
William Harvey  
Charles Drew  
Elizabeth Blackwell  
**Journey into Science Kit**  
**Healthy Science**  
Four systems of the body are explored with models and activities. Students make lung models, watch digestion, check out bones, and explore their nervous system with tricks and treats.  
(Nov. 2-Jan. 22)  
**Physical Science (HMS 4.2B)**  
Forms of energy  
Energy storage  
Movement of energy  
Electricity  
Electricity  
Circuits  
Electromagnets  
Michael Faraday  
**Journey into Science Kit**  
**Engineering Toys**  
This unit covers the basic stuff of physics – energy, motion, and forces – but with a fun twist. Students take apart, build, design, and experiment with toys as they come to understand forces, forms and transformations of energy, and motion.  
(Nov. 2-Jan. 22)  
On-going: **Scientific Thinking & Practice (HMS 4.5A)**  
**Science & Society (HMS 4.5B)** | **Elements of Art:** line, shape, form, space, texture, color, light, design, symmetry  
4.1A  
**Explore and use art materials**  
4.1B  
**Create artwork**  
4.1C  
**Native American art of New Mexico**  
4.2A  
(No Core Knowledge paintings required this quarter.)  
**Music**  
“My Grandfather’s Clock”  
4.3B  
“Waltzing Matilda”  
4.1C  
“Yellow Rose of Texas”  
4.3C  
Handel’s “Hallelujah Chorus”  
4.4A  
(See Dance Curriculum for performing arts integration ideas) |
# 4th Grade Year-Long Plan
## Third Nine Weeks

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<tr>
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<tbody>
<tr>
<td><strong>Novel</strong></td>
<td>American Revolution 4.3A</td>
<td>Physical Science (HMS 4.3A)</td>
<td>Elements of Art: line, shape, form, space, texture, color, light, design, symmetry 4.1A</td>
<td></td>
</tr>
<tr>
<td><em>Gulliver’s Travels</em></td>
<td>Making a Constitutional Government 4.3B</td>
<td>Matter forms and properties (chemical and physical change)</td>
<td>Explore and use art materials 4.1B</td>
<td></td>
</tr>
<tr>
<td><strong>Poetry</strong></td>
<td>Early Presidents-as listed in Core Knowledge 4.3C</td>
<td>Materials made of small particles</td>
<td>Create artwork 4.1C</td>
<td></td>
</tr>
<tr>
<td>“Clouds”</td>
<td>Reformers of the U.S.-as listed in Core Knowledge 4.3D</td>
<td>States of matter, mass, volume, density, vacuum</td>
<td><strong>Art of a new nation:</strong></td>
<td></td>
</tr>
<tr>
<td>“Dreams”</td>
<td>Symbols &amp; figures of the national government-as listed in Core Knowledge 4.3E</td>
<td>Core Knowledge: Basic elements</td>
<td></td>
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<tr>
<td>“The Fog”</td>
<td>Benjamin Banneker (Science 4.4 N)</td>
<td>Core Knowledge: Solution</td>
<td></td>
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<tr>
<td><strong>Sayings</strong></td>
<td>Citizenship 4.3F</td>
<td>Concentration</td>
<td></td>
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<tr>
<td>The bigger they are, the harder they fall.</td>
<td></td>
<td>Saturation</td>
<td></td>
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<tr>
<td>Money burning a hole in your pocket.</td>
<td>Inv 1 (7 lessons)</td>
<td>Energy (forms, conversion, storage, travel)</td>
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<td>An ounce of prevention is worth a pound of cure.</td>
<td>Inv 2 (6 lessons)</td>
<td>Force and Motion</td>
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<tr>
<td>Bull in a china shop</td>
<td>Inv 3 (5 lessons)</td>
<td>Journey into Science Kit</td>
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<tr>
<td>RSVP</td>
<td>Inv 4 (7 lessons)</td>
<td>Investigating Chemistry</td>
<td></td>
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<tr>
<td>Seeing is believing</td>
<td><strong>Speeches</strong></td>
<td>Students get their hands on many different kinds of materials in this unit as they explore physical and chemical changes, measure changes in mass with their own balance scale, and put their knowledge to work at the polymer lab. (Feb.8-Apr. 17)</td>
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<td>When it rains, it pours.</td>
<td>Patrick Henry’s speech</td>
<td><strong>Music</strong></td>
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<td>“Paul Revere’s Ride”</td>
<td>Sojourner Truth’s speech</td>
<td>“Gregorian Chant” 4.7B</td>
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<tr>
<td>“The Concord Hymn”</td>
<td><strong>Sayings/American Revolution</strong></td>
<td>Mozart’s “Magic Flute” 4.2A</td>
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<tr>
<td>“George Washington”</td>
<td>Lightning never strikes twice in the same place.</td>
<td>“Auld Lang Syne” 4.3C</td>
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<tr>
<td>“Humanity”</td>
<td>Go to pot</td>
<td>On-going throughout year:</td>
<td></td>
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<tr>
<td></td>
<td>You can lead a horse to water, but you can’t make it drink.</td>
<td><strong>Scientific Thinking &amp; Practice</strong></td>
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<td>Birds of a feather flock together.</td>
<td>(HMS 4.5A)</td>
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<td>Don’t count your chickens before they hatch.</td>
<td><strong>Science &amp; Society</strong></td>
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<td></td>
<td>(See Theatre Arts Curriculum for performing arts integration ideas)</td>
<td>(HMS 4.5B)</td>
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| **Myths & Mythical Characters:**  
Legends of King Arthur and the Knights of the Round Table  
How Arthur Became King  
The Sword and the Stone  
The Sword Excalibur  
Guinevere  
Merlin and the Lady of the Lake  
Sir Lancelot  
*St. George and the Dragon*  
*Robin Hood*  
*INVESTIGATIONS*  
45 lessons  
Unit 7: *Moving Between Solids and Silhouettes*  
Inv 1 (4 lessons)  
Inv 2 (5 lessons)  
Inv 3 (5 lessons)  
**INVESTIGATIONS**  
45 lessons  
Unit 7: *Moving Between Solids and Silhouettes*  
Inv 1 (4 lessons)  
Inv 2 (5 lessons)  
Inv 3 (5 lessons)  
**INVESTIGATIONS**  
45 lessons  
Unit 7: *Moving Between Solids and Silhouettes*  
Inv 1 (4 lessons)  
Inv 2 (5 lessons)  
Inv 3 (5 lessons)  
**Europe in the Middle Ages**  
4.4A  
Early and Medieval African Kingdoms 4.4B  
China: Dynasties and Conquerors 4.4C  
Citizenship 4.4D  
**Earth and Space Science**  
(HMS 4.4A)  
Structure of solar system  
Constellations, telescopes  
Benjamin Banneker (HMS 4.4 N)  
Weather patterns move west to east  
Local weather  
Core Knowledge:  
Water cycle, cloud types, atmosphere, air movement, fronts, storms, weather instruments  
On-going throughout year:  
Scientific Thinking & Practice  
(HMS 4.5A)  
Science & Society  
(HMS 4.5B)  
**Elements of Art:** line, shape, form, space, texture, color, light, design, symmetry  
4.1A  
Explore and use art materials  
4.1B  
Create artwork  
4.1C  
**Art of the Middle Ages:**  
4.7A  
“Madonna and Child on a Curved Throne”  
Illuminated manuscripts  
Unicorn tapestries  
Gothic architecture  
Famous cathedrals—Notre Dame (Paris)  
**Art of Africa**  
4.2A, 4.6A  
African masks  
Headaddresses of Mali  
Sculptures by Yoruba artists  
Ivory carvings and bronze sculptures of Benin  
**Art of China**  
4.2A, 4.6A  
Silk scrolls, calligraphy, porcelain  
**Music**  
“Comin’ Through the Rye”  
4.6A  
“Loch Lomond”  
4.3A  
Songs of the U.S. Armed Forces:  
4.8C  
“Air Force Song”  
“Anchors Aweigh”  
“The Army Goes Marching Along”  
“The Marine’s Hymn”  
“Taps”  
(See Dance Curriculum for performing arts integration ideas)  

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