

Core Knowledge Calendar

8th Grade

Month	Social Studies	Science	Language Arts	Art	Music
September	The Origins, purpose and need for government	Introduction to Science Class norms Communicating in scientific ways The scientific method Data collection & graphs Scientific theories & law	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>And Then There Were None</i> and mystery	Principles of Design: Movement Art History: -Keith Haring -Hokusai, Great Wave -Shanghai Theater Architecture -Vincent Van Gogh, The Olive Trees	Elements of Music Review as necessary from earlier grades: The orchestra and families of instruments (strings, wind, brass, percussion); keyboard instruments Vocal ranges: soprano, mezzo- soprano, alto; tenor, baritone, bass Modern Musical Performers - The Jackson 5: Rockin' Robin

			fiction		
October	The Enlightenment	Contact Forces MS-PS2-1: Newton's Third Law MS-PS2-2: Motion, force, and mass Plan an investigation MS-PS3-1: Kinetic energy, mass, and speed Construct and interpret graphical displays of data MS-LS1-8: Sensory receptors, the brain, and its effect on behavior or storage as memories. MS-ETS1-2: Evaluate competing design solutions using a systematic process MS-ETS1-3: Analyze data from tests to identify a new solution to better meet the criteria for success.	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>And Then There Were None</i> and mystery fiction Narrative essay writing MLA formatting	Principles of Design: Repetition, Rhythm, Pattern Art History- -Henri Matisse, Paper Cuts -Vincent Van Gogh, Starry Night -MC Escher, Tessellations	Romantic Composers and Works - Modest Mussorgsky, Pictures at an Exhibition (as orchestrated by Ravel) - Camille Saint-Saëns, Danse Macabre Music and National Identity • Composers and works: - Joaquin Rodrigo, <i>Concierto de Aranjuez</i> - Antônio Carlos Jobim, <i>The Girl from Ipanema</i>

November	The Colonial Era	Contact Forces, cont'd. Sound Waves MS-PS4-1: Use mathematical representations to describe a simple model for waves MS-PS4-2: Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials. MS-LS1-8: Sensory receptors, the brain, and its effect on behavior or storage as memories.	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>The Outsiders</i> and bildungsroman/ "coming of age" fiction	Principles of Design: Balance Art History: -Japanese Wood Block Prints -Large City Sculptures	Non-Western Music • Become familiar with scales, instruments, and works from various lands, for example: 12-tone scale, sitar from India, Caribbean steel drums, Japanese koto. • Ravi Shankar and daughter Anoushka Shankar, sitar composers and virtuosos, <i>Pancham Se Gara</i> • Zhao Jiping and son Zhao Lin, with Pipa Virtuoso, Wu Man, <i>Red Lantern</i>
December	The Colonial Era, The War for Independence Influential Documents	Forces at a Distance MS-PS2-3: Determine the factors that affect the	Writing: structure and organization (narrative, descriptive, expository, argumentative)	Principles of Design: Unity	Musical Theatre - Leonard Bernstein, <i>West Side Story</i> - Alan Menken, <i>A Christmas Carol</i>

		strength of electric and magnetic forces. MS-PS2-5: Conduct an investigation and evaluate the experimental design Provide evidence that fields exist between objects MS-PS3-2: Describe that when the arrangement of objects interacting at a distance changes, different amounts of potential energy are stored in the system.	Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>The Outsiders</i> and bildungsroman/ "coming of age" fiction		
January	The Constitution and the three branches	Earth in Space MS-PS2-4: Construct and present arguments using evidence. Gravitational interactions are attractive and depend on the masses of interacting objects.	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage	Principles of Design: Contrast & Emphasis Art History: -The Discus Thrower - Apollo Belvedere -John Singer Sargent, Parisian Beggar Girl -Claude Monet, Impression Sunrise	Elements of Music - Introduce • legato • staccato Song Ballads • "Ol' Man River" (Paul Robeson) • "Day-O" (Harry Belafonte) American Musical Theater

		MS-PS4-2: Describe that waves are reflected, absorbed, or transmitted through various materials. MS-ESS1-1: Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons. MS-ESS1-2: Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system. MS-ESS1-3: Analyze and interpret data to determine scale properties of objects in the solar system	Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>The Outsiders</i> and bildungsroman/ "coming of age" fiction Descriptive essay writing MLA formatting		• Broadway musicals: selections including - Jerome Kern, Showboat: "Ol' Man River"
February	The Bill of rights Laws and civic participation	Earth in Space, cont'd.	Writing: structure and organization (narrative, descriptive, expository,	Principles of Design: Proportion Self Portraits & Realism	Opera • Terms: overture, solo, duet, trio, quartet, chorus, aria,

			argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>Narrative of the Life of Frederick Douglass / A Raisin in the Sun</i> and African American literature Elements of drama	Art History Architecture: Parthenon, Pantheon, Gothic Architecture Art History Portraits: -Renoir, Self Portraits -Henry O. Tanner, The Banjo Lesson -Van Gogh Self Portrait -Picasso, Abstract Portraits	recitative • Composers and works: - Gioacchino Rossini, from <i>The Barber of Seville</i>: Overture and "Largo al factotum" - Giuseppe Verdi, from <i>Rigoletto</i>: aria, "Questa o quella"; duet, "Figlia!...Mio padre!"; aria, "La donna è mobile"; quartet, "Bella figlia dell'amore" Modern Musical Performers Chuck Berry Little Richard Ray Charles James Brown Aretha Franklin
March	World War 2	Genetics MS-LS1-2: Describe the function of a cell as a whole and ways parts of cells	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek	Art History: Abstract Expressionism & 20th Century Art -Jackson Pollock -Willem de Kooning, Woman and Bicycle Mark -Rothko, Orange	Music and National Identity • Composers and works: - Jean Sibelius, Finlandia

		contribute to the function. MS-LS1-4: Use argument based on empirical evidence and scientific reasoning How animal behaviors and specialized plant structures affect the probability of successful reproduction MS-LS1-5: Construct a scientific explanation based on evidence How environmental and genetic factors influence the growth of organisms. MS-LS3-1: Develop and use a model to describe why structural changes to genes affect the structure and function of the organism. MS-LS3-2: Asexual reproduction and sexual	roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>Narrative of the Life of Frederick Douglass / A Raisin in the Sun</i> and African American literature Elements of drama Expository essay writing & research MLA document formatting, works cited, and in-text citation	and Yellow -Helen Frankenthaler, Wales -Andy Warhol and Pop Art: Campbell's Soup Can, Marilyn - Roy Lichtenstein, Whaam Romare Bearden, She-Ba	- Bela Bartók, folk-influenced piano music such as <i>Allegro barbaro</i>, selections from <i>Mikrokosmos</i> or <i>For Children</i> Modern Music • Composers and works: - Claude Debussy: <i>La Mer</i>, first movement, "De l'aube à midi sur la mer" - Igor Stravinsky: <i>The Rite of Spring</i>, first performed in Paris, 1913
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		reproduction and the results in offspring. MS-LS4-5: Technologies that have changed the way humans influence the inheritance of desired traits in organisms.			
April	World War The origins of the Cold War	Genetics, cont'd.	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry,	Art History: 20th Century Sculpture -Auguste Rodin: The Thinker, Monument to Balzac Constantin - Brancusi, Bird in Space -Pablo Picasso, Bull's Head -Henry Moore, Two Forms -Alexander Calder, Lobster Trap and Fish Tail -Louise Nevelson, Black Wall -Claes Oldenburg, Clothespin -Maya Lin, Vietnam Veterans Memorial	Modern Musical Performers Miles Davis Nat King Cole Duke Ellington Ray Charles Stevie Wonder Musical Theatre - Cole Porter - Frank Loesser, <i>Guys and Dolls</i>

			fiction, and nonfiction <i>Anthem / Animal Farm</i>, dystopian fiction, and political satire Speech writing and delivery (graduation)		
May	1950's America in the Cold War	Natural Selection and Common Ancestry MS-LS1-4: How animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively. MS-LS4-1: Patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth MS-LS4-2: Anatomical similarities and differences among modern organisms and between modern and	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices Elements of poetry, fiction, and nonfiction <i>Anthem / Animal</i>	Art History Project Choose an era to research	Modern Musical Performers Bob Dylan Carole King James Taylor Music and National Identity - Charles Ives, <i>Three Places in New England</i> - Aaron Copland, <i>Appalachian Spring (Suite)</i>

		fossil organisms and evolution.. MS-LS4-3: Compare patterns of similarities in embryological development across multiple species. MS-LS4-4: Describe how genetic variations of traits in a	<i>Farm</i>, dystopian fiction, and political satire Speech writing and delivery (graduation) Argumentative essay writing & research MLA document formatting, works cited, and in-text citation		
June	1960's Civil Rights	population increase some individuals' probability of surviving and reproducing. MS-LS4-6: Natural selection Natural Selection and Common Ancestry, cont'd.	Writing: structure and organization (narrative, descriptive, expository, argumentative) Vocabulary/ Latin and Greek roots/affixes Grammar and usage Commonly misspelled words Foreign phrases Productive and civil speaking and listening skills Common literary devices Common rhetorical devices	Art History Project Presentations	Modern Musical Performers • British Invasion - The Beatles - The Animals - Herman's Hermits - The Who - New Vaudeville Band - Bee Gees

			Elements of poetry, fiction, and nonfiction <i>Anthem / Animal Farm</i>, dystopian fiction, and political satire Speech writing and delivery (graduation)		
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