

# Art and Music

Art and music are two important parts of an education that can be studied and explored in an endless variety of ways. Unlike math or science, the learning objectives for art and music cannot be as neatly quantified or defined. The main goal of art and music is to enjoy them and use them to glorify God. We have many great classes on SchoolhouseTeachers.com that can help you do just that!

If you're interested in specific academic goals for art and music, you'll find some general guidelines listed on the following pages. It is often most helpful if you naturally incorporate art and music into other subjects whenever possible (such as studying the art of ancient Egypt or the music of Russia alongside history and social studies).

Whenever possible, take field trips (either physical or virtual) with your children to explore art and music in a living, breathing way. Visit a museum, enjoy a musical performance, watch tradesmen in action, and dig in and try as many styles and techniques as you have time and the opportunity to enjoy!

Keep in mind as you explore art that it can cover a wide variety of techniques and media. It includes drawing and painting, but it also includes animation, architecture, casting, ceramics, computer graphics and applications, construction, dance or other creative movement, digital arts, drama (including mime, storytelling, and technical aspects of theater), drawing, film, graphic design, improvisational music, instrumental music, metal sculpture, mosaics, photography, printmaking, sculpture, textiles and fiber art, and much more.

Another integral part of art and music studies is reading biographies of famous artists and composers. You can find suggested reading lists about architecture, music, art, and art history in our [Book Lists for Families](#). Enjoy!

# Art and Music

## 6th–8th Grade Art

- Classify pieces of art by period and create timelines of art and artists.
- Begin studying major schools and periods, including major artists and their works. Topics may include impressionism, postimpressionism, expressionism, abstract art, surrealism, and modern art.
- Learn how to ask questions about and analyze art.

### On SchoolhouseTeachers.com

[A Century of Art](#): 9 weeks of art history for 6th–8th grade

[Everyday Easels](#): over 75 one- and two-week unit studies for Kindergarten–12th grade

[Studio Art for Teens: Art Basics](#): 15 weeks of instruction for 6th–8th grade

[Drawing with Realism](#): 12 units for 7th–12th grade plus additional help in [Art Tips with Jan Bower](#)

[Exploring the World of Art](#): 12 units for 3rd–12th grade

[Achieving Art Success with ArtAchieve](#): Level III, 7 units each year of 6th and 7th grade; Level IV, 6 units in 8th grade; see the [Course Availability](#) page for scheduled license renewal dates

Students in 4th–7th grade may enjoy the 4-week [Lapbooking](#) unit Knights of Art: Stories of Italian Painters.

In our Electives category, we also have [Heritage Crafts](#) (all ages), [Photography](#) (2nd–12th grade), [Hands-On Architecture](#) (3rd–7th grade), [Introduction to Architecture](#) (6th–12th), [Editing Photos with GIMP](#) (6th–12th), [Introduction to Graphic Design](#) (6th–12th), and [Filmmaking](#) (7th–12th). You may also enjoy our unit on Remarkable Art in [Unit Studies: Art](#).

World Book Online features many art-themed articles and studies, including [timelines](#) of American artists, Australian artists, European artists, leaders in cinema and photography, dance history, and the history of painting. [World Book Discover](#) contains a series of videos about arts, entertainment, and culture in the World Book Explains resource.

# Art and Music

## 6th–8th Grade Music

- Identify major and minor tonalities and identify themes, variations, and repeating structures in music.
- Continue to review and expand upon musical concepts learned previously. Also introduce musical terms such as octave, *grave*, *largo*, *adagio*, *andante*, *moderato*, *allegro*, and *presto*. Also learn to identify and define counterpoint, fugue, oratorio, symphony, concerto, rondo, suite, opera, string quartet, sonata, and chamber music.
- Learn about major and minor scales, diatonic scales, and keys up to three sharps or flats.
- Learn the bass clef and its notes.
- Learn about major and minor scales and be able to recognize I, IV, and V7 chords.
- Study chord changes, progressions, and intervals.
- Recognize and identify vocal ranges (soprano, alto, tenor, baritone, and bass).
- Continue to listen to music by various composers and learn to match key pieces with their composers.
- Create and play original musical compositions.

### On SchoolhouseTeachers.com

[Music Theory I](#): 16 weeks of the secondary level in 6th, 7th, or 8th grade

[Music Theory II](#): 16 weeks of the secondary level in 6th, 7th, or 8th grade

[Composing with the Masters](#): 22 weeks for 8th–12th grade

The [Timeline resource](#) in World Book Online contains timelines of various musicians and composers as well as the history of several different types of music.

Additionally, SchoolhouseTeachers.com offers [Recorder](#), [Guitar](#), [Drum](#), and [Beginning Violin](#) lessons that can be started at any grade. [Fun with Music](#) also offers games for music terminology review for 3rd–12th grade.

# Bible

While Bible is not typically included in secular curriculum lists, to most Christian families, it is the most important subject. SchoolhouseTeachers.com meets this need in several ways, led by the highly recommended:

[Schoolhouse Bible](#): 36 weeks per grade level of Bible reading plans for Preschool–Grade 12.

Meanwhile, there are over 30 other Bible courses for all ages from Preschool–Grade 12 in many subjects, including video-based and text-based learning, apologetics, Bible study, Christian character, and more. Please browse the [View by Subject: Bible](#) page to learn more.

Courses in every subject area on SchoolhouseTeachers.com are written from a Biblical worldview. Some that may assist with Bible study are [Breadmaking Devotional](#) (electives), [Geography of the Bible](#) (geography), [Dinosaurs and the Bible](#) (science; iST), and [Drive Thru History: Bible Backroads](#), [Church History](#), and [History of Christianity](#) (history).

In addition, the [Unit Studies: Bible](#) section has a dozen more short studies in various topics, and the [Just for Parents](#) section has topical encouragement for moms and dads as well, including titles such as In Due Season and Joy in the Morning.

Finally, there are multiple biographies of Christian missionaries and heroes of the faith in [Lighting the Way](#) (elementary) and the [Unit Studies: History](#) page (middle grades).

# Computer and Technology

Suggestions regarding what computer and technology skills should be learned at each grade level vary widely. We have included a list below of the courses we have for these skills and the recommended grade levels for each class.

[Building Blocks of Computer Science](#): 10 units for K–5th grade

[Editing Photos with GIMP](#): 36 weeks for 6th–12th grade

[How to Use Microsoft Excel](#): 18 weeks for 6th–12th grade

[How to Use Microsoft Word: Beyond the Basics](#): 16 weeks for 6th–12th grade

[Inkscape Online Adventure](#): 32 weeks for 8th–12th grade

[Internet Entrepreneurship for Teens](#): 24 weeks for 8th–12th grade

[Keyboarding](#): 10 lessons for 3rd–12th grade

[LibreOffice Writer® Basics](#): 50 lessons for 5th–12th grade

[Podcasting to Change the World](#): 6 units for 8th–12th grade

[Web Game Design](#): 42 lessons for 7th–12th grade

Plus a roundup of technology websites and resources in [Unit Studies: Computer and Technology](#).

# Drama and Speech

Suggestions regarding what drama and speech skills should be learned at each grade level vary widely. We have included a list below of the courses we have for these skills and the recommended grade levels for each class.

[Reader's Theater](#): 76 units for 3rd–6th grade

[Simply Shakespeare](#): more than a dozen plays for 3rd–9th grade (instructions given for single-child families)

[In the Limelight](#): study of a series of novels for 4th–10th grade (instructions given for single-child families)

[Introduction to Public Speaking](#): 20 weeks for 8th–12th grade

[Advanced Public Speaking](#): 18 weeks for 8th–12th grade

# Electives

We have included a list below of our elective courses and the recommended grade levels for each class.

[Heritage Crafts](#): 8 units to be enjoyed as a family

[Homesteading](#): dozens of topics to be enjoyed as a family

[Whole Foods Cooking with Sue Gregg](#): 14 weeks to be enjoyed as a family

[Home Economics](#): 23 weeks for K–4th grade; portions of this course are incorporated into the health scope and sequence for Kindergarten and 2nd grade

[Breadmaking Devotional](#): 12 lessons for 1st–12th grade

[Fun with Cooking](#): 28 lessons for 2nd–6th grade

[Hands-On Design Fun](#): 41 lessons for 2nd–6th grade

[Hands-On Learning Activities Through Crafts](#): 5 units for 2nd–9th grade

[Photography](#) and [Photography Challenge](#): 30 weeks plus 48 challenges for 2nd–12th grade

[Wildlife Adventures](#): 15 weeks for 3rd–6th grade

[Hands-On Architecture](#): 27 weeks for 3rd–7th grade

[Media Socialization](#): 19 weeks for 6th–12th grade

[Introduction to Architecture](#): 37 weeks for 6th–12th grade

[Editing Photos with GIMP](#): 36 weeks for 6th–12th grade

[Introduction to Graphic Design](#): 17 weeks for 6th–12th grade

[Career Exploration](#): 8 weeks for 7th–12th grade

[Filmmaking](#): 33 weeks for 7th–12th grade

[Logic](#): 15 weeks for 7th–12th grade

[Money 101](#): 7 weeks for 7th–12th grade

(cont.)

## Electives (cont.)

[Personal Finance in Bite-Size Chunks](#): 21 lessons for 7th–12th grade

[Starting a Micro Business \(for Teens\)](#): 8 weeks for 8th–12th grade

[Accounting 101](#): 18 weeks for 9th–12th grade

[College Choice Guidance](#): 32 weeks for 9th–12th grade

[High School Home Economics](#): 18 units for 9th–12th grade

[SAT-ACT Math Test Prep](#): self-paced practice for 9th–12th grade

[Psychology: Learning about the Mind from a Christian Perspective](#): 36 weeks for 11th–12th grade

You might also enjoy a four-week [Lapbooking](#) unit for upper elementary and middle school about the History of Photography.

# English Language Arts

Language arts is a broad heading that can incorporate many subjects depending on the approach taken. It varies from one curriculum to another, but often found under language arts are phonics/reading, reading comprehension, handwriting, literature, writing and composition, grammar, listening and speaking skills, and research skills.

One important element of language arts curricula is that the skills learned early in an education (such as capitalization and punctuation rules) are continually used throughout the student's journey. Even if the specific skills are not repeated in this scope and sequence each year, it is understood that the student is to continue to use what he or she has learned previously, reviewing as necessary.

## Reading

When possible, have your student read as many varied types of materials as he or she can. For prekindergarten and kindergarten emerging readers, creating a print-rich environment is important. Manipulating letters to sounds and sounds to words are the building blocks for reading. At this level, everything is readable—cereal boxes, signs, traditional text, names, etc.

In first to third grade, types of reading to become familiar with might include fiction, nonfiction, legends, fables, folktales, fairy tales, poetry, calendars, recipes, and hymns. In fourth and fifth grade, this can expand to include classic and contemporary literature, magazine articles, and newspapers. By sixth grade, readers should be exploring novels, short stories, biographies, autobiographies, plays, essays, and the classics.

## Additional Reading Resources

[The AMO® Program: Nurturing the Heart for God](#) uses Biblical and classic literature to cultivate a Christian worldview, sensibilities, and character.

[Ditch the Desk](#): stand-alone units on Jack and the Beanstalk, the Emperor's New Clothes, and writing your own fairy tale. [Growing Readers](#): activities to supplement *Owls in the Family* and *Pippi Longstocking*.

[Adventures with Books](#): suggested reading lists based on a theme and related activities you can do with your family to bring the stories to life.

[Ditch the Desk](#): Test Taking—Week 3 offers tips to make reading comprehension tests less stressful.

[Loving Literature through Chapter Books](#): Each book-length unit study will provide your family with the opportunity to read and explore a different chapter book. Whether you choose to study one or all of the novels included in the course, we know that you will love these books as much as we do.

[Reading Remedies](#) provides specific phonics instruction and strategies for struggling readers of any age.

[Daily Puzzlers](#) are language-based logic puzzles that vary in difficulty and include puzzles for 2nd through 12th grade. They promote critical thinking, vocabulary, and reading comprehension.

# Spelling

## Kindergarten–12th Grade: Spelling

[Schoolhouse Spelling](#) (iST for K–3): provides a full K–12 spelling curriculum on SchoolhouseTeachers.com.

In addition to the phonics units, [Reading Remedies](#) has three units which address spelling: Reading and Spelling Multisyllable Words, Spelling by Word Parts, and Improving Reading and Spelling Skills in Science.

For extra spelling fun, explore the [spelling-themed games](#) that are part of the Everyday Games series.

# Literature

## 5th–8th Grade

At this stage, the focus shifts from the student reading and comprehending what he or she has read to reading deeply and evaluating what he or she has read. As always, plenty of time for reading for pleasure should also be allowed. Don't forget [Book Lists for Families](#), which has book suggestions divided by grade level and topic.

As you read through the objectives for each grade level, please keep in mind that many of the skills listed can be applied to almost any piece of literature. Talk to your students about what they are reading. Ask them why they feel a certain way about an answer. How did they reach the conclusion they came to? Turn the objectives into questions and ask them to write their responses. Don't try to turn reading into nothing more than a formulaic analysis. There is a place for that, and it's important for students to learn to think critically about what they are reading. But it is also important to let students get lost in a great story and swept up into a world bigger than the one they know. Make time for both, and you will both enjoy the journey more!

# Literature

## 8th Grade

- Compare and contrast a fictional portrayal and an historical account of the same event or time period.
- Expand on knowledge of works by prominent authors. Suggested authors for this grade include Stuart, Whittier, Longfellow, Hawthorne, and Sandburg.
- Expand on knowledge of the classics. Suggested works for this grade include *Cyrano de Bergerac*, *A Tale of Two Cities*, *Animal Farm*, *The Good Earth*, and *Twelfth Night*.
- Be familiar with dramatic elements including farce, satire, soliloquies, and asides.
- Be able to dramatize a reading selection.
- Research a certain aspect (scientific, historical, geographical) of a book.
- Write a critical essay in response to a reading.
- Compare and contrast tragedy and comedy.
- Analyze if a movie or live performance is true to the text.

### On SchoolhouseTeachers.com

[Elements of Literature](#): 36 weeks

[Exploring Literature](#): 20 weeks

[Literature](#): *The Hobbit* by J.R.R. Tolkien

Additional works can be explored through the [Lapbooking](#) units for middle school–high school, including J.R.R. Tolkien: Influences From His Early Life, and “To Autumn” by John Keats

Expand on the classics and practice the ability to dramatize a reading with units from [Simply Shakespeare](#) and [In the Limelight](#). These units give an opportunity to research certain aspects of a book or play.

# Writing and Composition

We encourage you to incorporate writing in as many subjects as you can. Students can write recipes, create historic journals, write instructions for how to program a computer, keep a journal, etc. The possibilities are endless and do not need to be confined to a portion of a language arts curriculum.

Please note: The focus of the writing and composition section of this scope and sequence is on creativity and composition, not the physical act of writing. If your child struggles with the physical act of writing, please take a look at Judi Munday's [Special Needs Lessons 15 and 16](#) for alternative ways you can help your child express his or her thoughts.

# Writing and Composition

## 7th–12th Grade

In junior high and high school, writing is an integrated part of most subjects. Some students may wish to focus on writing classes tailored to a specific interest such as playwriting or fiction writing. This is also the time when some students enjoy exploring the history of the English language as it has changed over the centuries. In addition to developing and polishing their writing skills with cross-curricular assignments, students also should learn:

- to write a letter to the editor
- to appropriately cite quotations and sources
- to paraphrase material while avoiding plagiarism
- to be familiar with word processing/publishing software
- to assess the credibility and accuracy of sources
- to use parallelism in their writing where appropriate
- to write webpages and blog posts
- to write a resume
- to write an analytical essay
- to write an interior monologue for a character
- to create and deliver a multimedia presentation

A large number of writing and composition topics are explored in the following classes. Depending on the classes chosen and the interests of the student, you may wish to add writing a specific type of piece such as a letter to the editor or blog posts.

# Writing and Composition

## 7th–12th Grade

On SchoolhouseTeachers.com

[Writing On This Day In History](#): history-themed writing prompts for every day of the year; for 7th–10th grade

[Words and What to Do With Them](#): 9 weeks for aspiring 7th–12th grade authors

[How to Write a Resume](#): 4-week unit with action steps for 9th–12th grade

[Benjamin Franklin Writing Method](#) (iST): 24-week course that helps your 7th–12th grade student improve their writing skills using the same method employed by Benjamin Franklin—imitating the masters

[Experiencing Epics and Poetry](#): 18-week course for 7th–8th grade

[Creative Writing](#): 24-week course to help your 6th–9th grade student learn modern fiction writing techniques and move their work toward publication

[Writing: Advertising Copy](#): short 3-week course that helps students in 7th–12th grade identify the methods used in advertising and incorporate those methods in their own writing

[Writing: Compare and Contrast](#): 10-week course that will help students in 7th–12th grade learn the fine art of comparing and contrasting in what they write

[The Writing Life: Learn to Write Well](#): 34-week course for 9th–12th grade that teaches various types of writing including fiction, newspaper, reports, magazine articles, and more

[Writing: College Admission Essay](#): 2-week mini-course that helps juniors and seniors prepare for and write the college admission essay

[Fundamental Elements of Literature and Composition](#): 16-week course for 7th–9th grade (this course is also listed under 8th Grade Literature)

(cont.)

# Writing and Composition

## 7th–12th Grade

### On SchoolhouseTeachers.com (cont.)

[Writing with Janice Campbell](#) units that would complement a 10th grade world literature class:

- “Three Questions” by Leo Tolstoy
- *Around the World in Eighty Days* by Jules Verne
- “Daedalus and Icarus” by Ovid and Bulfinch
- *History of the Decline and Fall of the Roman Empire* by Edward Gibbon

[Writing with Janice Campbell](#) and [Classics-Based Writing](#) units to add to an 11th grade American literature class:

- “A Message to Garcia” by Elbert Hubbard
- “Paul Revere’s Ride” by Henry Wadsworth Longfellow
- “Whistle” by Benjamin Franklin
- *Moby Dick* by Herman Melville
- “I Hear America Singing” by Walt Whitman
- “Hearts and Hands” by O. Henry
- *Little Women* by Louisa May Alcott
- Classics-Based Writing: “To a Locomotive In Winter” by Walt Whitman
- Classics-Based Writing: Condolence Letter to Mrs. Bixby by Abraham Lincoln
- Classics-Based Writing: Declaration of Independence by Thomas Jefferson

(cont.)

# Writing and Composition

## 7th–12th Grade

On SchoolhouseTeachers.com (cont.)

[Writing with Janice Campbell](#) and [Classics-Based Writing](#) units to add to a 12th grade British literature class:

- “The Slavery of Free Verse” by G.K. Chesterton
- “How They Brought the Good News from Ghent to Aix” by Robert Browning
- “Sonnet VII: How Soon Hath Time, the Subtle Thief of Youth” by John Milton
- “On First Looking Into Chapman’s Homer” by John Keats
- “Advent” by Christina Rossetti
- “The Fly” by William Blake
- “The Wind and the Moon” by George MacDonald
- “The Seven Ages of Man” from *As You Like It* by William Shakespeare
- “To Winter” by William Blake
- “The White Ship” by Dante Gabriel Rossetti
- Classics-Based Writing: “Easter Wings” by George Herbert
- Classics-Based Writing: “Daffodils” by William Wordsworth
- Classics-Based Writing: *Bleak House* by Charles Dickens
- Classics-Based Writing: “Shall I Compare Thee to a Summer’s Day” by William Shakespeare

(cont.)

# Writing and Composition

## 7th–12th Grade

On [SchoolhouseTeachers.com](https://www.schoolhouseteachers.com) (cont.)

Additional [Writing with Janice Campbell](#) and [Classics-Based Writing](#) units for 7th–12th grade:

- “September 1918” by Amy Lowell
- “A Leak in the Dike” by Phoebe Cary
- Classics-Based Writing: “Opportunity” by Edward R. Sill
- Classics-Based Writing: “Death Comes for the Archbishop” by Willa Cather
- Classics-Based Writing: Limericks by various authors

## Additional Writing and Composition Resources

[Writing Mechanics](#): This parent resource teaches a 20-step plan to help students build good sentences.

[Ditch the Desk](#): Test Taking: Writing offers tips to make writing tests less stressful for elementary students.

[Daily Writing](#): more than 1,500 writing prompts to encourage creativity, thinking skills, and writing skills for students in 4th–12th grade

# Grammar

## 8th Grade

In building on what has been previously learned, eighth graders need to also learn:

- progressive tenses of verbs
- about participles
- about verbal phrases
- how to use italics and quotation marks correctly when referring to the title of an artistic work, names of ships, etc.
- how to form and use verbs in the indicative, imperative, interrogative, conditional, and subjunctive moods
- about qualifier and relative adverbs
- about phrasal prepositions
- about two-way modifiers
- about perfect and passive gerunds, perfect and passive infinitives, split infinitives, progressive infinitives, and elliptical infinitives
- about reciprocal pronouns
- about conjunctive adverbs
- about perfect and passive participles

On [SchoolhouseTeachers.com](https://www.schoolhouseteachers.com)

[Daily Grammar for Middle School: 7th–8th Grade](#): 16 weekly worksheets that review and build on grammar skills and practice diagramming (covers many of the topics listed above)

Students can even have fun *reading* about grammar! Check out the [Book Lists for Families](#) unit about Spelling and Grammar.

# Listening and Speaking Skills

## 4th–12th Grade

Once the foundation for good speaking skills is laid, there is no end to where a student may go with it. It is good practice for the student to deliver a portion of his or her work orally, whether it be a book report, a play, or the recitation of poetry using clear diction, making appropriate eye contact, and speaking at an appropriate volume. As students get older, it is important they learn to not only give, but also analyze oral presentations by drawing conclusions, asking questions, and critiquing messages for bias, fallacies, opinion cited as fact, and unsupported generalizations. They should also practice taking coherent notes from an oral presentation.

### On SchoolhouseTeachers.com

See the complete list of classes on SchoolhouseTeachers.com designed to help students sharpen their skills and gain confidence in speaking in our [Drama and Speech](#) category.

# Research Skills

## 3rd–12th Grade

- Become comfortable using a thesaurus and encyclopedia
- Become comfortable using a dictionary, understanding the usefulness of multiple definitions, sample sentences, etymology, and the pronunciation key
- Be familiar with how to use the library, including the Dewey Decimal system and the electronic catalog
- Be able to use a Bible concordance and cross references
- Be able to use a newspaper to gather or find information
- Understand how to use a timeline
- Differentiate between primary and secondary sources

## On SchoolhouseTeachers.com

[Research Skills for Middle School](#): 6-week unit designed to help students in 6th–8th grade brush up on research skills including using a dictionary, library skills, writing a bibliography, checking the accuracy of online information, and writing a proper citation

[How to Do Research](#): 6-week unit for 4th–12th grade

How to Write a Research Paper: stand-alone unit for 3rd–5th grade in [Unit Studies: Language Arts](#)

[Navigating the World of Research](#): 9-week introduction to research tools and procedures for 3rd–6th grade

World Book Online includes [multiple research tools](#) for students including dictionaries, a How to Do Research center, and a citation builder.

# Foreign Language

Many families introduce foreign language instruction during the elementary years, often through songs, vocabulary games, and cultural exposure. This early introduction builds interest and familiarity. More formal instruction typically begins in middle school, where students begin developing foundational communication skills and an understanding of language structure.

High school graduation requirements for foreign language vary by state. A common benchmark for graduation or college admission is the completion of at least one year of a foreign language. Some states also recognize American Sign Language (ASL) as fulfilling this requirement.

SchoolhouseTeachers.com offers a number of foreign language options, include Spanish and Korean. To ensure visibility and clarity, our English as a Second Language (ESL) courses are also grouped under Foreign Language rather than Language Arts. This helps families locate appropriate instruction based on student needs, whether they are learning a new language or acquiring English as an additional language.

## ESL Courses on SchoolhouseTeachers.com:

- [ESL for Beginners](#): 5 full levels of instruction, each with 12 interactive audio lessons suitable for K-5th grade
- [ESL Language Arts](#): 18 weeks of text-based lessons for the whole family
- [ESL Vocabulary](#): 8 weeks of text-based lessons for the whole family
- Find courses with Spanish components in our [Educación en Casa en Español](#) Center.

# Foreign Language

## 1st-8th Grade

Foreign Language instruction in elementary and middle school is optional and should focus on:

- Introductions
- Basic vocabulary (colors, numbers, etc.)
- Cultural awareness
- Communication skills

### On SchoolhouseTeachers.com

[Elementary Spanish](#): 34 video-based lessons for 1st-6th grades

[Latvian](#): 32 video-based lessons for 1st-12th grades

[French for All Ages](#): 8 levels of text- and audio-based instruction, each covering approximately 1 school year, for 1st-12th grades

[Beginning Latin](#): 24 video-based lessons for 3rd-12th grades

[Latin II](#): 26 video-based lessons for 8th-12th grades

Find more Foreign Language resources in our [ESL & Foreign Language Center](#).

# Health

Every curriculum approaches health a little differently. Some incorporate it with science from the very beginning. Some incorporate it with science and anatomy in higher grades. You may enjoy the [Book Lists for Families](#) selections for Healthy Reads! Famous Doctors, Nurses, and Researchers. Below, you will find an outline of some suggested health topics to incorporate each year.

You'll find in-depth information about how to determine your child's fitness goals and guide them on their way to developing and maintaining a healthy lifestyle in our [Physical Education Center](#), where we have material for all ages. We'll also help you set goals such as:

- Engaging in physical activity with competence and confidence
- Experiencing physical activity in a variety of environments
- Understanding the importance and benefits (physical, emotional, social) of a lifestyle that includes physical activity
- Incorporating regular physical activity into your family's lifestyle
- Achieving and maintaining physical fitness

# Health

## 7th–12th Grade

Many health curricula either introduce or expand on the topics of sex education, tobacco use, drugs, and alcohol throughout the junior high and high school years. We feel it is imperative for each family to decide when those discussions are appropriate for each child and will not attempt to assign grade levels to these discussions.

### On SchoolhouseTeachers.com

If you would like to continue to incorporate general health studies through 8th grade, you may want to consider [Understanding Middle School Health](#), a 36-week course for 6th–8th grade.

Additionally, SchoolhouseTeachers.com offers [Nourishing Nuggets](#), [Healthy Eating for Families](#), and [Family Fitness](#) classes that are designed to be done as a family with adaptations for children of any age.

# History

The approaches to teaching history are varied, but for the purposes of this scope and sequence, we offer an outline of two main tracks: **traditional** (following a generally chronological approach to US history and a regional approach to world history) and **classical** (a series of cycles that follows a chronological approach, with each cycle through the topics going into more depth). Remember that you can never teach every moment of history! Help your children understand the framework of history so they can continue to build on that knowledge for the rest of their lives.

## Traditional Track

### Kindergarten

Early American History (pre-Columbian period to the Revolutionary War)

### 3rd Grade

New World Explorers; Native Peoples; 13 US Colonies; Industrial Revolution; Europe (Renaissance to the early 19th century)

### 6th Grade

American History (Post-Civil War through World War I and Women's Suffrage, 1860s-1919); Ancient History (AD 400 to Pre-Renaissance)

### 9th Grade

Some curriculums divide world history into two high school years, 9th and 10th grade. Some leave one year open for state history study or specialized study and review world history in 10th grade

### 12th Grade

American Government and Economics

### 1st Grade

Early American History (pre-Columbian period to the US Constitution)

### 4th Grade

American History (Great Awakening to the Age of Jackson, 1720-1845); Early and Medieval Africa; Colonization and Movements Toward Independence in Central and South America

### 7th Grade

American History (Roaring Twenties through Post-World War II); World History (Renaissance to Early 20th Century)

### 10th Grade

World History (ancient to modern)

### 2nd Grade

American History (Constitutional Convention to late 19th century)

### 5th Grade

American History (Pre-Civil War through Reconstruction, 1820-1877); Ancient History through the Fall of Rome

### 8th Grade

Modern American History (Post-World War II to present); Modern World History (1900 to present)

### 11th Grade

American History (from discovery to post-WWII)

# History

## 8th Grade (Traditional) Modern American and World History

### Modern American History (Post–World War II to Present):

- Study the causes and effects of the Cold War and the Korean War
- Identify the contributions of McCarthyism, the Eisenhower presidency, JFK's presidency
- Understand the historical significance of the Marshall Plan, Truman Doctrine, the Iron Curtain, the *Apollo* moon landing, Watergate
- Study lifestyles, trends, and commonalities in America in the 1950s and 1960s
- Explore the Civil Rights Movement to include Rosa Parks, Martin Luther King, Jr., and Lyndon B. Johnson
- Study the causes and effects of the Vietnam War to include protests and treatment of returning veterans
- Study the causes and effects of the First Gulf War
- Explore modern issues in America to include women's rights, farm workers, environmentalism, Native American reservations, coal industry, the Internet, energy crisis
- Explore the causes and recent history of the War on Terror including key dates and people

### Modern World History (1900 to present):

- Explore the British Empire and the effects of the decline of colonialism
- Explore the effects of the establishment of the People's Republic of China
- Identify the significance of the Opium War, Sun Yat-Sen, Mao Zedong, Chiang Kai-Shek, Fidel Castro
- Explore the Middle East and the effects of various conflicts to include the Suez crisis, Arab-Israeli Wars, 1979 Iran Revolution, Iran-Iraq War, Persian Gulf War, and oil politics
- Explore the European Union
- Explore the division and reunification of China, Germany, U.S.S.R
- Explore current issues to include child labor, human trafficking, Islamic militants

# History

## 8th Grade (Classical)

### Modern History (AD 1756–present)

#### America and the World Wars:

- Identify causes, effects, events, and impact of the French and Indian War
- Explain the causes, effects, specific battle sites, key figures, and impact of the American Revolution
- Significance, details of creating, key points, and impact of early historical documents: the Declaration of Independence, Constitution, and Bill of Rights
- Study the establishment of the capital and the events surrounding the War of 1812
- Trace Westward Expansion to include the Louisiana Purchase, the Santa Fe Trail, the Erie Canal, Trail of Tears, the Oregon Trail, and the California Gold Rush
- Explore various Native American tribes and the changes to their way of life
- Study the Industrial Revolution, including inventions, transportation, factories
- Identify the historical significance of the Battle of the Alamo
- Study the events leading up to the Civil War to include the Compromises of 1820 and 1850
- Study the causes, major battles, and effects of the Civil War
- Explore reasons for and impacts of immigration and the importance of Ellis Island and the Statue of Liberty
- Understand the contributions of key figures, such as Rosa Parks, Susan B. Anthony, and Martin Luther King, Jr. to the equal rights movement
- Trace the contributions of Jacob Riis, Booker T. Washington, and Dwight L. Moody
- Identify impact of inventions by Alexander Graham Bell, Thomas Edison, Henry Ford, the Wright Brothers
- Identify the causes and background of World War I, including major events, US entry, Treaty of Versailles
- Understand the causes and effects of the Great Depression and the New Deal
- Study the causes, background, and major events of World War II and identify the impact of Benito Mussolini, Adolf Hitler, Joseph Stalin, Dietrich Bonhoeffer, Anne Frank, Corrie ten Boom, the Manhattan Project, the Marshall Plan, and the Truman Doctrine
- Study the causes and effects of the Cold War and the Korean War
- Identify the significance of McCarthyism, Eisenhower's and JFK's presidency, and the *Apollo* missions

# History

## 8th Grade (Classical, cont.)

### Modern History (AD 1756–present)

#### America and the World Wars (cont.):

- Study the causes and effects of the Vietnam war to include protests and treatment of returning veterans
- Study the causes and effects of the First Gulf War, the recent War on Terror, including key dates and people, oil politics, and militants

#### World History:

- Discuss exploration in Australia and the South Pacific and colonization
- Recognize key historical figures in leadership roles, including Catherine the Great, Louis XVI, Marie Antoinette, and Napoleon Bonaparte and explain the historical significance and impact of the Seven Years' War, French Revolution, and Napoleonic Wars
- Identify the historical significance of Karl Marx and Marxism
- Learn about Russian history to include history, culture, and Revolutions of 1905 and 1917, Vladimir Lenin, and the Iron Curtain
- Study specific missionaries' lives, struggles, and legacies
- Explore the British Empire and the effects of the decline of colonialism
- Trace the history of modern Israel, including its establishment as a nation and wars in the Middle East
- Identify the historical significance of the Boxer Rebellion, Opium War, Sun Yat-Sen, Mao Zedong and the People's Republic of China, Chiang Kai-Shek, Fidel Castro, Bay of Pigs Invasion, and the Cuban Missile Crisis
- Explore the reunification of Germany and the fall of the U.S.S.R
- Study Apartheid and Nelson Mandela in South Africa
- Explore current issues to include child labor and human trafficking

#### Colonization and Movements Toward Independence in Central and South America

- Explore the independence revolutions and recognize the historical significance of Simon Bolivar, Jose de San Martin, and Bernardo O'Higgins

# History

## 8th Grade

On SchoolhouseTeachers.com

Traditional:

[US and Modern World History](#): 44-week course

Interdependence of the States: stand-alone unit in [Unit Studies: Social Studies](#)

[Civil Rights Movement](#): 18-week course looks at the events leading to the Civil Rights Movement and the impact of many key figures

World Book Online includes [webquests](#) about Martin Luther King, Jr. and Rosa Louise Parks.

Classical:

[Expansion, Independence, and Wars: World History](#): 36-week course

Interdependence of the States: stand-alone unit in [Unit Studies: Social Studies](#)

[Civil Rights Movement](#): 18-week class looks at the events leading to the Civil Rights Movement and the impact of many key figures

World Book Online includes [webquests](#) about the history of the United Kingdom since 1707, Benjamin Franklin, the American Revolution, the Civil War, World War I, the Russian Revolution of 1917, and the Great Depression.

[World Book Discover](#) includes a number of short videos about World War II under world history.

## Additional History Resources

[American History in Picture Books](#): this series of activities and discussion questions based on picture books is a great introduction to history for students in 1st–5th grade

[Drive Thru History: Bible Backroads](#): video-based course for 6th–12th grade on the New Testament books

[Drive Thru History: Bible Unearthed – Biblical Archaeology](#): video-based course for 4th–12th grade

[Church History](#): 12 weeks for 9th–12th grade

[Fashions in History](#): 11 weekly lessons plus numerous optional extension activities for 3rd–12th grade

[Hands-On Notebooking Across the United States](#): state-by-state notebooking for Kindergarten–2nd grade

[History of Air Travel](#): 5 eBooks unit study designed for 5th–6th grade

[History of Christianity](#): video-based course for 9th–12th grade exploring the impact of Christianity on various points of history

[Lapbooking Through the Ages](#): 13 lapbooks for 1st–5th grade on a variety of history topics

[Life of Abraham Lincoln](#): 12-week study for 2nd–9th grade

[Native American History: An Introduction](#): 18 weeks designed for 7th–9th grade

[This Day in History](#): (all ages) collection of resources to bring history to life every day of the year

[Writing On This Day In History](#): collection of history-themed writing prompts for every day of the year; designed for 7th–10th grade

[Women Through History](#): 29 weeks for 8th–12th grade

(cont.)

## Additional History Resources (cont.)

### [Unit Studies: History](#)

- All About Inventions: for 2nd–5th grade – take a fun look at some modern inventions like bubble gum
- A Timeline of Hieroglyphics to Hypertext: A Timeline of the Written Word for 4th–6th grade
- A Timeline of Smoke Signals to Smartphones: ... Long-Distance Communication for 4th–6th grade
- A Timeline of Stargazing to Space Travel: A Timeline of Space Exploration for 4th–6th grade
- Learning Ladders: Inventions for 1st–2nd grade
- Presidents of the Past for 2nd–5th grade
- The Submarine: A Legend Before Its Time for 3rd–7th grade

### [Unit Studies: Geography](#)

- Land of Liberty: Liberia for 4th–6th grade

### [Unit Studies: Social Studies](#)

- Learning Ladders: Famous Buildings for 1st–2nd grade

You may also enjoy [Book Lists for Families](#) for Black History Month, Courage, Hero Hurrah! and World War II.

World Book Student has a [biography center](#) where you can search more than 10,000 famous people or generate lists of people based on job or achievement, country or cultural heritage, and time period. For example, students could find female explorers or male English scientists of the 1800s.

[World Book Timelines](#) includes hundreds of timelines, thousands of events, and the ability to build or customize your own timeline. Some of the premade timelines include timelines of US, African, Asian, Australian, Canadian, European, Latin American, Middle East, and New Zealand history; US military history; the history of explorers; world history; history of science and inventions; and the history of literature.

World Book Advanced includes a [Teaching with Documents](#) series of lessons on military history from Charlemagne to Vietnam.

# Geography

## 8th Grade

- Study the main physical features of each continent
- Learn to locate the majority of the world's nations on a political map
- Learn the capitals of all major Asian and African nations along with Australia and New Zealand

### On SchoolhouseTeachers.com

[All About Maps](#): Unit 8: self-paced unit

All About the World: Grade 8: self-paced unit in [Unit Studies: Geography](#)

Additionally, SchoolhouseTeachers.com has a number of supplemental geography resources for your family to enjoy. You will find these on the page titled Additional Geography Resources that is included with this scope and sequence. There are printable maps, outline maps and flags, an atlas, interactive maps, and more in the map resources featured in several of the [World Book Online](#) resources and fun geography games in [World Book Kids](#). Several of World Book resources include a feature called [Compare Places](#) which allows students to compare and contrast various states, provinces, dependencies, countries, and continents.

# Additional Geography Resources

[Everyday Explorers-Australia/New Zealand](#): 7 monthly units for K–12th grade

[Everyday Explorers-Canada](#): 11 monthly units for K–12th grade

[Everyday Explorers-USA](#): 22 monthly units for K–12th grade

[Exploring Elementary World Geography](#): 7 units for 1st–4th grade

[Ayo's Awesome Adventures Around the World for Kids](#): 10 eBooks for 2nd–4th grade

[Asia: Trade Route Safari](#) (also included with Additional History Resources: 38 weeks for 2nd–5th grade

[Wonders of the World](#) (iST): 5 weeks for 3rd–5th grade

[Let's Visit Denmark](#): 9-week study for 3rd–6th grade

[Lapbooking](#): 4-week unit on London and Buckingham Palace for 3rd–7th grade

Geograquizzes: Geography Quizzes and Activities for 6th–9th grade\* in [Unit Studies: Geography](#)

[Kinetic Connections](#): offers tips to help parents teach geography to hands-on learners

[Geography of the Bible](#): video series for high school

There are further resources in [Unit Studies: Geography](#) including Cruisin' the Country, Geography Study with George Frederic Handel, Geography Study with Missionary William Carey, Military Geography, Physical Geography of Africa, and Travel the World.

\*One way to use the geography quizzes as part of your curriculum is to use the answer key as the lesson to spark independent research. For example, using the World Commodities Quiz, students can learn that Venezuela exports iron ore, Russia exports natural gas, etc. They can use that as a springboard to learn more about these specific countries and exports, write a paragraph or more on each, and then take the quiz at the end.

## Social Studies

Some curricula treat social studies as a subject separate from history, while others incorporate it into historical studies. The ways in which social studies can be combined with history are virtually endless. When you study a period in history, look at as many aspects of daily life as you can. What jobs did people have? What were their families like? What kinds of homes did they live in?

Three key areas emphasized in social studies are cultural awareness, responsible citizenship, and foundational economics.

Here are some specific goals included in various curricula that do not always fall into a course of historical studies.

# Social Studies

## 7th–8th Grade

- Celebrations, food, and customs in other countries
- Closer look at how advancements in science and technology impact our daily lives
- Preserving cultural heritages in a quickly changing world

### On SchoolhouseTeachers.com

[Learning About World Cultures](#): 200+ lessons for 7th–8th grade exploring the nations of the world

Ring in the New Year: for 5th–7th grade in [Unit Studies: Social Studies](#) explores New Year’s celebrations and traditions in various countries

Inventions and Discoveries: Transportation: eBook in [Unit Studies: Various](#)

History of Hanukkah: a video unit study explaining this Jewish celebration and its connection to Christmas in [Unit Studies: Holiday](#)

Additionally, [Mock Trial](#) is a social studies class for 7th–12th grade that contains 35 topics that can be studied independently from one another for any total course length desired or taken together as one course spanning 70 weeks.

World Book Online includes [webquests](#) on the history of computers and electronic games. You may also enjoy [Book Lists for Families](#) for Patriotism and Courage.

# Economics

## 7th–12th Grade

A formal study of economics is typically undertaken by 12th grade, as it is commonly required for high school graduation.

### On SchoolhouseTeachers.com

Inventions and Discoveries: Economics: eBook for 5th–8th grade in [Unit Studies: History](#)

[Free Market Economics](#): 24 weeks for 8th–12th grade

[Free Men and Free Markets: Government and Economics](#): 5 video lectures/10 hours for 9th–12th grade

From the Computer and Electives categories, there are courses about participation in the economic system:

- [Internet Entrepreneurship for Teens](#): 24 weeks for 8th–12th grade
- [Personal Finance in Bite-Size Chunks](#): 21 lessons for 7th–12th grade
- [Starting a Micro Business \(for Teens\)](#): 8 weeks for 8th–12th grade

## Math

## 7th–12th Grade

There are many ways to approach high school math. Below is a table showing several different tracks a student may follow through upper math classes.

| 7th Grade            | 8th Grade   | 9th Grade | 10th Grade | 11th Grade                   | 12th Grade                                    |
|----------------------|-------------|-----------|------------|------------------------------|---|
| Math 7               | Math 8      | Algebra 1 | Geometry   | Algebra 2                    | Pre-Calculus                                  |
| Math 7               | Math 8      | Algebra 1 | Geometry   | Algebra 2                    | Statistics and Probability                    |
| Math 7               | Pre-Algebra | Algebra 1 | Algebra 2  | Geometry                     | Precalculus with Trig and Analytical Geometry |
| Fundamentals of Math | Pre-Algebra | Algebra 1 | Geometry   | Algebra 2                    | Precalculus                                   |
| Pre-Algebra          | Algebra 1   | Geometry  | Algebra 2  | Precalculus or Consumer Math | Calculus, Economics, or Consumer Math         |

While SchoolhouseTeachers.com does not feature courses titled Math 7, Math 8, or Fundamentals of Math, families who need the extra time with skills-based remediation may utilize any of the skills-based units and courses listed on the Additional Math Resources page. Use the skills listed for 1st–6th grade to identify areas which need additional remediation. In addition, the [Pre-Algebra](#) course on SchoolhouseTeachers.com does a thorough review of all the foundational math concepts required before moving on to [Algebra 1](#).

# Math

## 7th–12th Grade

On SchoolhouseTeachers.com

[7th Grade: Pre-Algebra](#): 40-week course

[8th Grade: Algebra 1](#): 36-week course

[9th Grade: Geometry in Real Life](#): 36-week course

[10th Grade: Algebra 2](#): 36-week course

[11th Grade: Trigonometry](#): 18-week course

[11th Grade Statistics](#): 18-week course

[12th Grade: Precalculus](#): 36-week course

[12th Grade: Intro to Calculus: Derivatives and Integrals](#): 36-week course designed for students who have successfully completed Precalculus.

As indicated on the table on the previous page, families may wish to do a more or less advanced schedule of math in the upper grades, tailored to the specific needs of their students. The above grade recommendations reflect the order of courses included in the SchoolhouseTeachers.com [School Boxes](#).

SchoolhouseTeachers.com also has a number of supplemental math resources for your family to enjoy. You will find these on the page titled Additional Math Resources that is included with this Scope and Sequence.

# Additional Math Resources

[Book Lists for Families](#): book lists for Math at various reading levels

[Covering All the Bases: Geometrical Area and Volume](#) (iST): 7-week video course for 4th–8th grade

[Let's Do Math Outside](#): 24 worksheets and activities for 1st–4th grade

[Siyavula International Homeschool Math Curriculum for Grades R–12](#): complete grade-level curricula using comma decimal separators from preschool through high school.

[Focused Learning Center-Math](#): round up of all math resources on the site plus extra teaching helps

Math-focused units in [Ditch the Desk](#):

- Weeks 3-4 of Spring unit for 2nd–5th grade
- Week 2 of Test Taking unit for 2nd–5th grade
- Baking with Math single unit for 3rd–5th grade

Skill building:

- [Decimal Workshop](#): 10 lessons for 3rd–5th grade
- [Multiplication and Division Practice Unit](#): 24 lessons for 3rd–5th grade
- [Whole Numbers Place Value](#): 11 lessons for 3rd–5th grade
- [Fraction Workshop](#): 12 lessons for 3rd–6th grade
- [Understanding Fractions Workshop](#): 11 lessons and games for 3rd–5th grade
- [Daily Math](#): more than 200 supplemental worksheets for 3rd–8th grade reviewing a wide range of skills
- [Everyday Games](#): 100s of supplemental math worksheets for 1st–4th grade

# Additional Math Resources (cont.)

The following can be found in [Unit Studies: Math](#):

Teach Kids Algebra: help introducing algebra concepts to younger elementary students

Middle School Math Help:

- Fractions, 4-week unit for 3rd–6th grade
- Equations, 4-week unit for 4th–6th grade
- Probability and Statistics, 3-week unit for 4th–6th grade

High School Math Help:

- Finding Areas Using Reasoning, single unit for 10th–12th grade
- Pythagorean Theorem, 5-lesson unit for 10th–12th grade
- Finding Areas Without Formulas, 5-lesson unit for 10th–12th grade
- Lesson on Pi, 2-lesson unit for 10th–12th grade

Adding and Subtracting with Regrouping: for 2nd–5th grade

Blaise Pascal: Mathematician Extraordinaire: a biography for 3rd–7th grade:

Converting Units in the Metric System: for 6th–8th grade: teaches how to convert using a table and by cross canceling

Fun with Shapes: Geometry for 4th–5th grade

How to Cross Cancel Fractions: for 4th–8th grade: teaches a skill important to converting units and learning algebra.

Scientific Notation Explained: for 6th–8th grade: important for both science and math

Silly School Songs: review and memorization for 1st–5th grade

# Science

## 7th–12th Grade

There are several ways to approach high school science. Below is a table showing two different tracks a student may follow through upper-level science classes.

| 7th Grade    | 8th Grade        | 9th Grade        | 10th Grade | 11th Grade | 12th Grade |
|--------------|------------------|------------------|------------|------------|------------|
| Life Science | Physical Science | Earth Science    | Biology    | Chemistry  | Physics    |
| Life Science | Earth Science    | Physical Science | Biology    | Chemistry  | Physics    |

### On SchoolhouseTeachers.com

#### Life Science

[Botany: Plant Science and Field Studies](#) (iST): 9 weeks for 7th–10th grade

[Animal Science](#): 27 weekly lessons for 7th–12th grade

[Life Science](#): 30 weekly lessons (geared for 10th–12th grade, but younger students with an interest in science may enjoy the lessons)

Insects and Spiders: eBook for 6th–8th grade in [Unit Studies: Science](#)

[Friendly Anatomy](#): The Bovine Skeletal System: 13 weekly lessons for 9th–12th grade

#### Earth Science

[Geology Unit One](#) (iST): Rocks and Minerals: 17 weeks for 4th–12th grade

[Earth Science](#): 27 weeks for 7th–9th grade

#### Physical Science

[Physical Science](#): 36 weeks for 7th–9th grade

(cont.)

# Science

## 7th–12th Grade

There are several ways to approach high school science. Below is a table showing two different tracks a student may follow through upper-level science classes.

| 7th Grade    | 8th Grade        | 9th Grade        | 10th Grade | 11th Grade | 12th Grade |
|--------------|------------------|------------------|------------|------------|------------|
| Life Science | Physical Science | Earth Science    | Biology    | Chemistry  | Physics    |
| Life Science | Earth Science    | Physical Science | Biology    | Chemistry  | Physics    |

### On SchoolhouseTeachers.com (cont.)

#### Biology

[General Biology by Core Academy](#): 32 weeks for 9th–12th grade

[Anatomy & Physiology](#): 36 weeks for 9th–12th grade

#### Chemistry

[Friendly Chemistry: Laying the Foundation](#): 14 weeks for 10th–12th grade

[Advanced Chemistry](#): 25 weeks for 11th–12th grade

[Introduction to Forensic Science](#): 18-week lab course for 9th–12th grade

#### Physics

[Homeschool Physics](#): 36-week course for 10th–12th grade

# Additional Science Resources

[Ditch the Desk](#): Test Taking: Bonus Lesson (Week 4) and Making a Lava Lamp Video for elementary

[Everyday Astronomy](#): 36 weeks for Kindergarten–12th grade with age-appropriate work designed to be done as a family

[Lapbooking Through Science](#): 6 mini lapbooks for 1st–3rd grade

[Let's Do Science Outside](#): 20 worksheets for 1st–4th grade

Light Studies: 2 units in [Unit Studies: Science](#) for 1st–5th grade

[Chemistry Help](#): 36 weekly lessons

[Science Experiments with Jason Lindsey](#): 20+ video-based science experiments with household items for 1st–5th grade

[Science Experiments with World Book](#): easy hands-on experiments for 1st–5th grade

Diet Pop and Mentos: downloadable experiment guide in [Unit Studies: Science](#)

[Nature/Outdoors](#): 4-week studies of sand, animal tracks, the night sky, rainbows, winter, and creeks

The Story of Energy: eBook in [Unit Studies: Science](#) that explores the discovery of electricity and natural gas, the long road to distributing those resources, the deregulation of the phone system in the past, and what the deregulation of energy may mean for the future

[Kinetic Connections – Science](#): parent helps for teaching science

[Focused Learning Center – Science](#): round up of all science resources on the site

[Book Lists for Families](#): see lists of books on physical science fun, fun with life science, nature exploration, and science