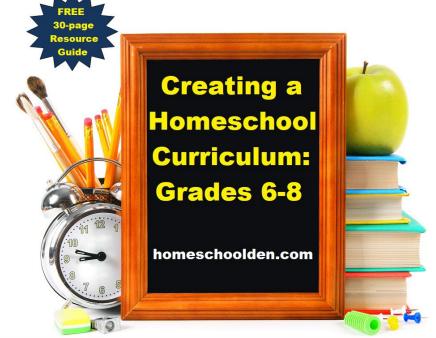
How to Create Your Own Homeschool Curriculum:

Grade 6 - 8 Resource Guide



What subjects should I teach my kid/s? Where do I start? How do I know what to teach my kids? What skills do they need as we look toward high school?

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How do I get started homeschooling my middle schooler? How do I know what to teach my 6th, 7th or 8th grader?

This free 30+ page Homeschool Curriculum Resource Guide provides some insight into how our family is navigating the middle school years. There are some basic checklists in each of the subjects from language arts and math to science, history and foreign languages. This guide includes some of the specific topics our family may (hopefully!) cover as the kids move through the middle school years, though as the guide will tell you... all three of my kids will have a different experience coming up through these grades -- and yours will too!!

Why did I create this series, How to Create Your Own Homeschool Curriculum?

I first set out to create this Curriculum Resource Guide series because I had so many reader questions. Quite a number of people wanted to know what we did in 2nd grade, 4th grade or 7th grade. I found that a difficult question to answer because like many homeschool families we do many of our subjects together. But, the question is still legitimate, right? We are all curious about what other families are doing with kids about the same ages as theirs.

What I hope to do with this series is give you a framework of what we did. You can look at what we did and pick and choose what might work for your family. That's the wonderful thing about homeschooling, you create a curriculum path that works for you! Remember there are free resource guides like this one for

- Kindergarten First Grade
- Grades 2-3
- Grades 4-5
- and now this curriculum guide for grades 6-8

How to Create Your Own Homeschool Curriculum: Gr. 6-8

This is the 4th in a series of curriculum resource guides I have created. This one has, by far, been the most challenging to put together. I think that's because my girls are still coming up through the middle school years. All three of my kids have had a different homeschool experience as they've come up through the grades. (Does that sound familiar?!)

I'm also worried that you are going to look everything on this list and faint! You might wonder how you'll possibly get through all of this. The thing is, many of these are topics we covered in earlier grades so our family just reviewed/hurried through the topics. Some topics we went into a *lot* of depth and other topics we scratched the surface, but then ran out of time.

So, just as each of my kids will all have completely different middle school experiences, know that your kids and your family will also pick and choose along the way. Some topics might excite your kids, other topics you glance off the surface, and still other topics they won't cover until high school or college... or not at all.

You might cover given topics/subjects for a variety of reasons....

Your family might study a topic because your kids are fascinated or interested in a topic.

Your family might study a topic because *you* are fascinated. (We've all had instructors who ooze enthusiasm and excitement for a topic we never knew could be so interesting!)

Some topics are a means to polishing other skills... writing essays or doing research.

Some topics (like cells or geography) might serve as the foundations and bricks for other topics. For example, a knowledge of cell function and organelles helps in the study of the digestive system or the understanding taxonomy. And a knowledge of geography is imperative as you study the tensions and

transitions of modern Europe from 1900 (the period of nationalism) through the end of WWII. These topics help, but that doesn't mean students can't pick up what they need to know later.

And often (for my kids at least) we study a topic simply because they don't know much about it.

You will never cover everything!

Again, when you look through these suggestions, see them as a smorgasbord... Pick and choose. You might come back and look at topics again in more depth later. Or, you might skip some topics altogether.

No teacher in any classroom can cover everything (take that from a high school and college history teacher!! We educators *always* skim over some areas and spend more time on others.)

My kids each will have had a completely different experience coming up through the middle school years. None of them will have gone through everything. My main goal is that we dive and explore different topics and they are inspired and excited by what they've learned. And, that they build skills and continue to be excited about learning!

This year my kids are ages 10, 12 and 14. But people continue to ask for this guide, so as long as you realize this is a work in progress I'm happy to share my thoughts! By the time my youngest (now in 4th grade) finish middle school, I'm sure I'll have a whole lot more thoughts and wisdom to add to this guide! Keeping that in mind, you can use this as a starting point!

How should I cover this material?

This is a tough question, partly because there are now SO many options!

- You can go with an online curriculum program.
- You can go with complete curriculum for all subject areas (There are too many to list here, but Sonlight, Abeka, BJU, Time for Learning, are just a few...).
- You can purchase individual curriculums in the different subject areas (for example, getting Cover Story for writing or Saxon for math).
- You can do a combination of purchased curriculum and your own unit studies.
- You can purchase (traditional) textbooks and supplement with other resources.
- You can develop your own curriculum journey by borrowing books from the library and purchasing used curriculum.
- You can have your kids take online classes (there are many quality teaching resources out there from coursera, to open courseware from universities such as MIT, there is Khan Academy and many, many other options.

You can do projects, lapbooks, or notebook pages. You can do experiments, crafts, posters, mini-research projects and all kinds of things to help your kids learn. You can read aloud non-fiction and fiction books. You can watch videos... by middle school our family incorporated a lot of documentaries and college lectures (from Coursera or other mooc courses). In the right context, (fictional) novels and movies can be very educational as well! You can go on field trips, to museums, and explore the online world. ... and much, much more!

My highest goals have been to make the learning creative and engaging for the kids. I want them to have the skills they need to write well (and creatively), to think critically, to be able to learn new things on their own, to be polite, kind people. I want them to value education and to see what it will do for them. I keep the end goals in mind... And that's *your* first step. Decide what skills you want the kids to have at the end of the year and at the end of this homeschool journey. Then slowly work towards those!

Unit Studies Science: We have continued to do unit studies through the middle school years. I have found that we have generally covered a unit on chemistry, the human body, physical science and biology each year through the middle school years. This year, for example (with DD in 7th grade) we did Earth Science again (supplementing with lectures from a coursera course called Planet Earth), scientific classification & taxonomy, the digestive system (and nutrition), a chemistry unit, and a quick botany unit.

Unit Studies History: We have kept moving progressively through time. We are probably going into more depth and detail than public schools tend to. This year, for example, we spent a lot of time studying Japan and the samurai period, the Age of Absolutism, enlightenment, scientific revolution, French Revolution and Napoleon. Public schools tend to race through much more material, but as homeschoolers, I feel like we have the time to really dive deep into the material.

What style is your family?

We are eclectic homeschoolers. We use many different types of curriculum... from online courses, purchased homeschool curriculum, traditional textbooks, library books, documentary, films, and great books. I often pull from at least a half-dozen resources when we are covering a unit... plus I make a lot of our material to make sure the kids are learning on a deeper level.

At this point, the kids also do a lot of their own learning and then share what they've learned with the rest of us. They do power point presentations fairly regularly and share what they've discovered. My middle daughter said that she *loves* this type of learning and honestly says that she learns the most when she is doing the research & presentation!

Do I have to complete the entire curriculum/textbook/program?

Keep in mind that you will not and do not have to cover "everything." If you purchase a homeschool curriculum (or any of our packets), you do not have to cover every page. If you look at a checklist of curriculum options... you do not have to cover everything. Use those as a resource, not as to-do list (or a ball-and-chain)!!

All that was kind of a disclaimer. I want to offer you a starting point (if it helps), but want you to know the YOU can and will create an amazing homeschool experience!! You CAN do this!! You know your kids better than anyone else!!

So, let's jump into the meat of things – building a curriculum for Grades 6 to 8. \bigcirc ~Liesl



Building Powerful Reasons for Homeschooling!

You know you had amazing reasons for beginning your homeschool journey, but have you continued to nurture you and your kids' homeschool dreams? Do you have powerful reasons for homeschooling that keep you motivated all throughout the year? Do you have the energy and inspiration you need to plan lessons and make the kids' learning experience incredible, memorable, fulfilling and powerful?

Why do you homeschool? List your reasons below:	
	
	
	
	
Now that you have thought about why you are homeschotopics your kids are learning.	pooling in a general way, think about the subjects and/or
Why are they studying these subjects/topics?	
Subject/Topic:	Subject/Topic:
Subject/Topic:	Subject/Topic:

As you look closely at what your kids are learning and why, you'll probably come up with even more reasons why homeschooling works for your family!

When you look at what you want to accomplish for each subject/topic, you start looking at the specific skills you want your kids to build.

For example, you might be studying history not only to discover how different countries interact with one another over time, to see the role religion has played in uniting or breaking regions apart or how human ingenuity has improved (or destroyed) lives, but also you might emphasize building skills in writing, research, using power point, presenting information orally and things like that.

And as you look more closely at your homeschool and how it functions, some of your reasons for homeschooling might be even more apparent!

Grade 6 - 8

Language	Math	Social Studies	Science	Arts, Music,
Arts				Foreign
				Language
Great	Fractions,	Ancients (if not	Physical Science	Music and
Literature	Percentages,	previously covered)	*Astronomy	Music Theory -
Novels	Decimals,		*Earth's Systems	My kids were
	Factoring	World History:	*Atmosphere, Weather and Climate	taking private
Literature		China, India,	*Geosphere: Earth's	lessons and
Selections	Pre-Algebra	Africa (if not	changing surface -	we've been
(poetry, short		previously covered)	plate movements,	involved in a
stories, plays,	Algebra	AA:ddla Aaaa	faults, earthquakes, volcanoes	homeschool
etc.) We used		Middle Ages	*Rocks & Minerals,	band and wind
literature	Geometry	Renaissance	Natural resources	ensemble.
anthologies.			*Hydrosphere -	
		Reformation	Oceans	Art
Writing	Building Skills in	Age of	Physics & STEM	We touched on art
Workshop	Middle School:	Absolutism	Energy Unit: Newton's Laws	history in our history studies,
	N. 1 1 1 1	Enlightenment	Motion & Stability	but we haven't had
Essay &	Make sure kids know how to factor	Scientific	Forces	any formal art
Research	numbers easily.	Revolution	Optics	instruction.
Writing	They will need this	Revolutions -	Waves & their	
	for Algebra!	American	applications Sound	Foreign
	We have to do end-	Revolution;	Light	Language:
Grammar &	of-year tests to	French		In Europe, most kids start to learn
Editing Skills	fulfil the	Revolution	Astronomy	a foreign language
	homeschool	Revolution	Biology/Life	early. We decided
	requirements of our	20 th Century	Science	to do that in our
	state. We found that we needed to	History	*Biosphere - Ecology	homeschool as well.
	review some math	Isms: Nationalism,	Biomes, Food Chains & Webs	We are learning German (because
	topics at the end of	Industrialization,	*Classifying	that's what I
	the year:	WWI, Great	Organisms, Dissection	learned).
		Depression, WWII,	*Genetics Heredity,	Introduce basic
	Mean, Median,	1950s, Cold War,	inheritance & Variation of traits	vocabulary such as:
	Mode	Civil Rights Movement, etc.	*Adaptations	numbers, greetings, colors,
	Cham and I C	,, 5.10.	*Animal & Plant Cells	animals, words in a
	Stem-and-leaf	American	*Cells, Tissues,	house, family
	plots; Whisker	History	Organs, Systems	words, words in a
	plots, etc.	Some families do a	*Anatomy &	school room, etc.
		year on this.	Physiology - Human Body Systems	
			*Botany	
	<u> </u>	<u> </u>	Duluny	

Building Skills in Middle School:

Essay writing

Editing your own work

- commas
- quotation marks
- indenting

Civics and Government

3 branches of government. Types of Governments Types of Societies World Leaders

Building Skills in Middle School:

Essay writing.

Research, writing & presentation. (I have had my kids do quite a number of power point presentations... adding in a new skill requirement with successive assignment (like animation)

Begin to see longterm trends and patterns in history.

Begin to understand historical cause and effect.

Begin to use primary and secondary sources, including graphs, maps, and images.

Have a strong knowledge of how our own government works

Continue building a strong knowledge of geography

Chemistry

Periodic Table, Atoms & Molecules,
Elements, Classifying
Matter Metals/Nonmetals,
Mixtures &
Substances, Bohr
Diagrams, Electron
configuration, Lewis
Structures, Covalent
& Ionic Bonds, Making
Molecules, States of
Matter
Properties of Matter

Building Skills in Middle School:

Have lots of handson experiences & do experiments that allow students to make predictions.

Have familiarity with basic science terminology in each of the major science subjects.

Building Skills in Middle School:

Build strengths in their areas of interest and passion.

Learn to practice regularly – daily if possible!

Middle School Science

(Grades 6-8)

We would spend 2-4 weeks on units that touched on

- Earth and Physical Science
- Biology
- Chemistry
- Human Body Systems

On some of the more complex/complicated units we reviewed them a bit each year. For example, we reviewed the basics of energy (kintetic vs potential energy, hydrocarbons-this is important for organic chemistry in high school biology and chemistry) cells, scientific classification, the periodic table, ions & isotopes most ever year.

Middle School (Grades 6-8): Science

Earth and Physical Science



Earth Systems: The Earth works as a set of interconnected systems; these four major Earth Systems are often referred to as spheres and include the 1) atmosphere 2) geosphere 3) hydrosphere – cryosphere 4) biosphere

By subdividing Earth's systems into subcategories scientists are more easily able to study and understand the planet's natural cycles and processes.





Earth Systems: Atmosphere

The Layers of the Atmosphere is a topic your kids may have covered in late elementary, but its Earth Science – the geosphere – Earth's changing surface, plate movements, faults, earthquakes, volcanoes



Weather and Climate

Types of Clouds, Weather Map Symbols, High & Low Pressure Systems, Global Winds, the Jet Stream, Local Winds, Monsoons, el Niño and la Niña conditions, Air masses (and how they are named), and Cold fronts, warm fronts, occluded fronts

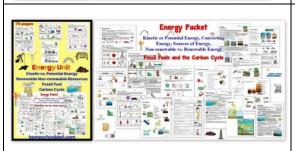


Earth Science: the geosphere – Earth's changing surface, the layers of the earth, Earth's mantle, plate movements, tectonic plates, faults, earthquakes, volcanoes



Rocks and Minerals

This packet covers minerals, identifying minerals - crystalline structures, the characteristics of minerals (color, streak, luster, hardness), the Mohs Hardness Scale, how rocks are formed, weathering, erosion, the lithification process and more. It also includes interactive minerals observation lab activity.



Energy Unit We started covering Energy topics (physics topics) in middle school so we did parts of these units each year in middle school. We covered Kinetic vs Potential Energy, Renewable vs Non-renewable Energy, fossil fuels-hydrocarbons the Carbon Cycle. We covered the types of energy (mechanical, chemical, nuclear, electrical, radiant, sound, elastic, and gravitational energy); waves, the electromagnetic spectrum and light; Converting energy from one form to another

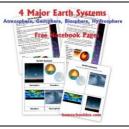




Astronomy - Space Race We covered the universe and galaxies & light time and the space program. While doing this unit we watched a documentary called *Chasing the Moon*, about the space race and the Mercury, Gemini and Apollo space programs.

Biology





Earth Systems The Earth has 4 interconnected systems. The previous page touched on Earth Science and the atmosphere. The hydrosphere (Earth's waters- the study of oceans/oceanography) and biosphere (life on earth) are often studied during biology.



Ocean Unit

The Study of Oceans/Oceanography: Marine Habitats, Coral Reefs, Water Form Words, Tides, Currents, Ocean Floor, Ocean Life, Salinity, Layers of the Ocean, Bioluminescence and More!



Biology Packet - Ecosystems and Biomes; Producers vs consumers; habitats; biological interactions; feeding relationships - food chain and food webs; trophic levels; symbiosis and mimicry; populations and population growth



Scientific Classification and Taxonomy Packet (100 pages) dichotomous key activity, Linnaeus & the history of classification, learn the Animalia phyla (Annelids, Platyhelminthes, Nematodes, Cnidaria, Animalia, etc.)



Cells Unit (150+ pages) – cell theory, prokaryotic vs. eukaryotic cells, **animal vs. plant cells**, **organelles** of the cell, **chloroplast** anatomy, the layers of a leaf, photosynthesis and more.



Pathogens Packet (100 pages) – This unit covers the six major living and nonliving pathogens: bacteria, protozoa, fungi and parasites/worms as well as viruses and prions. The large majority of this packet goes into detail about bacteria and viruses. **This was my daughter's favorite unit in 8th grade!



Botany Packet — (80 pages) Plant Classification, Life Cycle of the Moss, Fern, Conifer, Angiosperms, Parts of a Flower, Parts of a Seed, Seed & Fruit Development, Monocots vs Dicots — plus **Carnivorous Plants Mini-Unit**

Chemistry Unit



Chemistry Packets



pH Scale



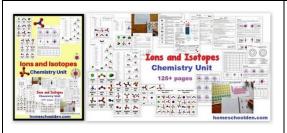
We covered the States of Matter in elementary. You might want to review that, if you haven't already. In middle school one of our first units (after doing the Size of Atoms activity -intro to chemistry) was the **Properties of Matter** with topics such as Atoms; Elements & Compounds; Molecular vs. structural formulas; Physical and Chemical Properties; Basic definitions (of terms such as viscosity, elasticity, capillarity, ductility, malleability, etc.); Hands-On Activities of some of these properties (viscosity, cohesion, capillary action, etc.); Density Activities; Mixtures: Solutions, Colloids and Suspensions; Separating Mixtures; Building Molecules Activities (and activity cards)



Electricity and Circuits Unit – We did this unit after we covered the Properties of Matter. This is a really fun, hands-on unit. Topics in this unit included The parts of an atom; Electric currents: Conductors and insulators: Parts of a light bulb: Batteries; Volts, amps, ohms; Electrical circuits: Power source, load, conductor; Simple Circuits; Direct and Alternating Current (DC and AC); Resistance, Resistors and How they work; Anode, cathode; Electrical Symbols; Open and closed circuits; Short circuits; How to draw basic electrical schematics; Series circuits; Parallel circuits; Motors; Circuit breakers and the power grid



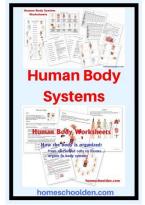
Chemistry Packet – An introduction to the Periodic Table (150 pages) – Learn how the periodic table is organized and find out more about the different groups of the periodic table (Alkali metals, alkaline earth metals, halogens). Learn what valence electrons are and do some fun activities to create Lewis structures. Learn about the first twenty elements as well as elements with unusual names. Plus, learn about electron configuration and more! (We did this primarily in middle school, but did electron configuration in high school again.)



Ions and Isotopes – After finishing the chemistry unit, I wanted to be sure my kids really understood the difference between ions (which have more/fewer electrons) and isotopes (which has more/fewer neutrons). This unit helped cement that in. I also wanted my kids to have a leg up for high school chemistry by starting to become familiar with important ions - so we played a lot of identification games for common ions such as chloride, chlorate, etc. etc.

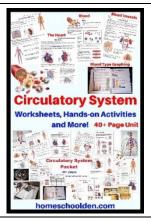
Human Body System

We continued our routine of covering one or two human body systems each year. We covered most of these units at least once when my kids were in elementary, but went into more depth in middle school.



Human Body Systems

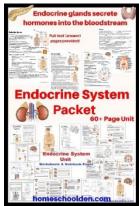
What are the major human body Systems? How do they work (in general) from cells, tissues, organs to body systems?



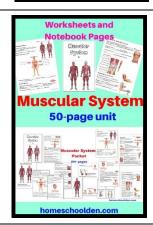
Circulatory System



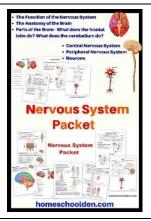
Skeletal System



Endocrine System



Muscular System



Nervous System

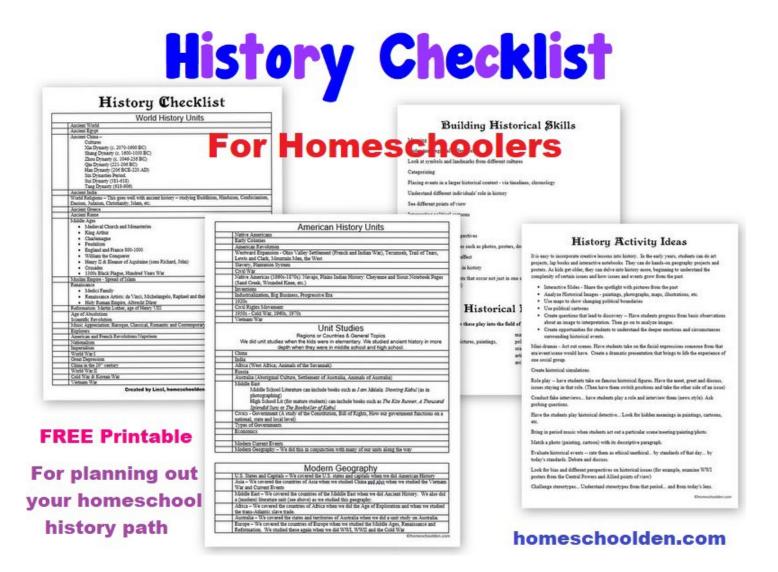


Digestive System

In middle school we went on to talk about nutrition: vitamins, fiber, enzymes, etc.

Middle School (Grades 6-8): History

Please download the <u>Free History Checklist</u> that I made recently! You will find that here: https://homeschoolden.com/history-units/



Science

Here are some of the activities that we did, with clickable links to the posts.

Some of these topics we covered in earlier years and just quickly reviewed as we went into a similar/related topic.

Remember, I have three kids and we do some of our subjects together (science, history, foreign language), so some of these units we returned to every couple of years and added more depth to the unit the second (or third!) time around. (For example, we covered Earth Science when the kids were quite young, in mid-elementary school and again when they were 10, 12 and 14 when we went into considerably more depth -- looking into the composition on lava and how this influences the power and explosive force of volcanic eruptions. Similarly, we did a unit on ecology/biology when my son was in middle school... as the girls hit middle school, we will review this unit but then move on to heredity, inheritance, variation of traits & adaptations.

My goal is for the kids to have a pretty solid foundation in sciences as they move into high school, but they won't necessarily hit all the topics listed in the middle school years. (For example, my son really hasn't done genetics or botany.) I'm not worried, though, because they will go into more depth in their high school courses!

I found it more important to delve into our units in as much depth as suited their interests.

If I were a bran-new homeschooler trying to choose topics/units for my middle schooler, what would I choose? I would ask the kids if they had any particular interest... and would start with one of these... or I might do one of these units below (though I would do cells (#1) before biology/ecology/classification (#2).)

- 1. Cells I would try to give the kids a good foundation on the organelles of the cells and the difference between plant & animal cells, eukaryotic & prokaryotic cells
- 2. Biology/ecology & the classification of organisms We did these as two different units in different years because we watched the entire Planet Earth documentary series when we did biology/ecology/biomes/habitats. But, if I were a new homeschooler & my kids were keen, I would probably also go into taxonomy/classification of animals as well since it ties back to cells (eukaryotic & prokaryotic cells) and ties to the biomes and habitats.
- 3. Earth Science This is a fun unit at any age. We went into depth when the kids were middle school age and supplemented our unit with the lectures wonderful coursera.org class from the Univ. of Illinois. Remember, those classes are free!
- 4. Chemistry I would make sure the kids had a good understanding of the Periodic Table, atomic structure, valence electrons, groups metals/non-metals/metalloids and so forth... If you have time, I would go into ions and isotopes and the formation of molecules. There are lots of wonderful chemistry experiments your family can do together!

Middle School Science Topics (Quick Overview)

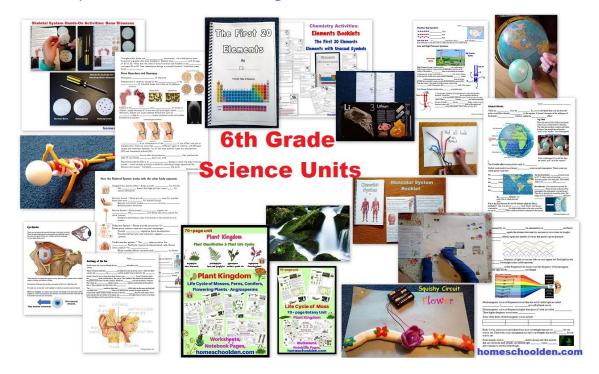
Biology/Life Science:

☐ Cells — Plants vs. Animal Cells; eukaryotic vs. prokaryotic cells, human body cells — (We also did a studof leaves and talked about photosynthesis when we did this unit again.)
□ Ecology/Biology — the biosphere: biomes, habitats, food chains & the food web, trophic levels, the energy pyramid, biological relationships, feeding relationships — When we did this unit, we also watched the BBC documentary, Planet Earth with David Attenborough. The kids loved this series!
☐ Scientific Classification & Taxonomy – Classifying Organisms, Dissection
When my kids were younger, we studied some of the basic animal characteristics. In this unit, we went into depth about the differences between animal phyla (annelids/earthworms vs. platyhelminths/flatworms, for example!). Plus, in this unit we did some basic dissection (clams/oysters, crabs, fish)
☐ Oceans — ocean life, fish form & function; bioluminescence; marine habitats; Note: we studied this both from a biological perspective, but also as one of the 4 major Earth Systems so we talked about marine habitats, the ocean floor, sonar, salinity, ocean tides, ocean currents and so forth.
☐ Genetics — This is generally a unit in high school biology, but if you have advanced students, you migh want to do a basic unit about DNA & genetics.
□ Botany − 4 Main Plant Groups: Flowering Plants, Mosses, Ferns, and Cone-bearing plants − Plant Life Cycle, parts of a flower, parts of a seed, etc.
□ Pathogens — the six major living and nonliving pathogens: bacteria, protozoa, fungi and parasites/worm as well as viruses and prions.
Anatomy & Physiology (note: we generally reviewed the cells/tissues/organs/systems each year and studied ONE of the human body systems in depth each year)
 □ Cells, tissue, organs, body systems □ Skeletal System – structure & function of the bones □ Muscular System □ Circulatory System □ Digestive System; Micro Flora; □ Nutrition & Health (fiber, vitamins – we did this after our study of the Digestive System) □ The Brain & the Nervous System □ Reproductive System □ Body Growth & Development
Chemistry:
☐ States of Matter (Make sure your kids know these and terms like deposition and sublimation, but I wouldn't do a whole unit on this.)

□ Physical & Chemical Properties of Matter – Talk about Matter, p mixtures, elements, compounds, solutions and suspensions, talk abou matter (viscosity, cohesion, capillary action, and density) and chemic	t the physical properties of
☐ Compounds & Chemical Change; chemical bonds (ionic & coval Building Molecules	ent bonds); Molecules;
□ Periodic Table: Atoms – Atomic Structure; Bohr Model;	
☐ Elements and the Periodic Table (classifying matter: metals & no substances); names of elements – chemical symbols; symbols & atom patterns; chemical families	-
Physical Science	
☐ Solar System; planetary orbits (elliptical orbits; Kepler's L the Sun (energy, layers of the Sun, Sun's atmosphere, etc.) the	•
☐ Earth Science — We did this unit when the kids were young and covered these topics again in considerable more depth. (pla earthquakes, mountain making, volcanoes — the different types types of volcanoes	ate tectonics, faults,
☐ Oceans – ocean plates; tides & currents; ocean depth; wate	r forms;
☐ Rocks & Minerals, rock cycle, Earth's surface (water; wear soil types, mass movements	thering), erosion, soil &
☐ Layers of the Atmospheres	
☐ Weather & Climate; Meteorology	
□ The Earth & its atmosphere □ Layers of the atmosphere □ Causes of weather □ Weather systems, global wind systems, jet streams, i □ Storms □ Climate □ Weather analysis & forecasts □ Electricity & Circuits (basic concepts of charge, current, electric current, resistance, circuits & schematic diagrams, seriedid this after we covered the physical properties of matter. We about electricity and did a lot of fun activities building circuits, insulators, etc.	basic atomic theory, es & parallel circuits. We went on to talk in-depth , talking about conduction,
☐ Energy motion, Forces – Gravity, Friction, Work & Energy energy) Machines Newton's 3 Laws of Motion	(potential & kinetic

Here is a post about what my youngest did in 6th grade:

science-year-in-review-6th-grade/



My youngest is in 7th grade this year. Some of the units we did this year include:

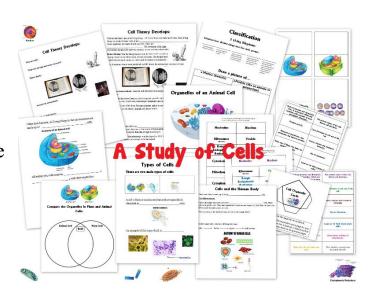
- o Earth Systems (just a quick review of the <u>4 major Earth Systems</u> and then she moved on to the Hydrosphere... i.e. Earth's Oceans!)
- o Oceans Unit
- o Scientific Classification and Taxonomy
- Energy Unit Kinetic vs Potential Energy, Renewable vs Non-renewable Energy (Review of some of the things she covered in 6th grade)
- o Waves, the Electromagnetic Spectrum and Light Worksheets
- Rocks and Minerals Unit
- o Chemistry Valence Electrons (Bohr Diagrams and Electron Configuration)
- Endocrine System Unit [We've been doing various Human Body Systems throughout the years. This was the first time she covered this. The endocrine system includes glands that secrete hormones... (i.e. rather than glands that secrete a substance like tears, milk or sweat).] ... on the other hand, when my middle daughter was in 6th grade and my oldest was in 8th grade we did the Circulatory System!
- O Plant Cells and Photosynthesis Worksheets
- o Astronomy (the Apollo Program & the race to the Moon)

Science

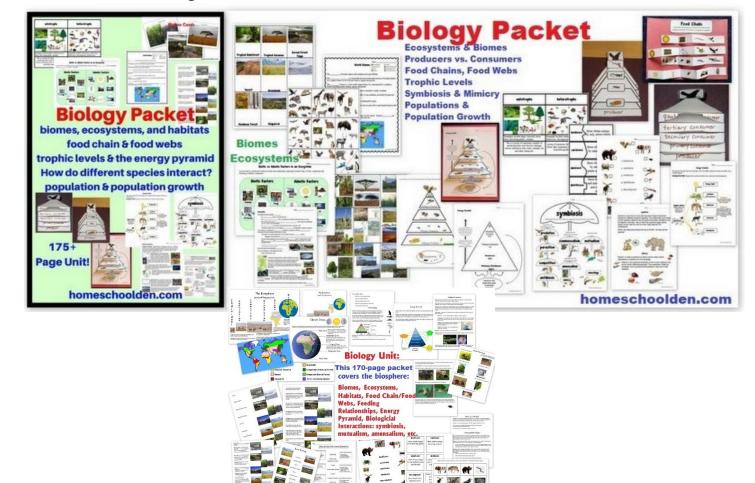
Biology/Life Science:

<u>Cells</u> – Plants vs. Animal Cells; eukaryotic vs. prokaryotic cells, human body cells – (We also did a study of leaves and talked about photosynthesis when we did this unit again.)





<u>Ecology/Biology</u> – the biosphere: biomes, habitats, food chains & the food web, trophic levels, the energy pyramid, biological relationships, feeding relationships – When we did this unit, we also watched the BBC documentary, Planet Earth with David Attenborough. The kids loved this series!



Scientific Classification & Taxonomy – Classifying Organisms, Dissection

When my kids were younger, we studied some of the basic animal characteristics. In this unit, we went into depth about the differences between animal phyla (annelids/earthworms vs. platyhelminths/flatworms, for example!). Plus in this unit, we did some basic dissection (clams/oysters, crabs, fish)



> 2 8 B

Oceans — This is a pretty common unit in middle school. Some topics might include ocean life, fish form & function; bioluminescence; marine habitats; Note: we studied this both from a biological perspective, but also as one of the 4 major Earth Systems... so we talked about marine habitats, the ocean floor, sonar, salinity, ocean tides, ocean currents and so forth. [This is a common unit in public school middle schools.]



Marine Habitats



Pathogens

When my daughter was in 8th grade, we did a biology unit on ecology which covered everything from biomes and ecosystems to feeding relationships/food webs and populations. Towards the end of that unit, we talked about the biological relationships among different species. Some relationships between animals (or plants) or beneficial, while others are harmful.

Once we completed our Biology Unit, we moved on to looking more closely at those **harmful interactions**. We did a huge unit on **Pathogens**.



- What diseases are caused by bacteria? viruses?
- What causes malaria? Yes, mosquitoes carry it, but did you know protozoa actually cause the disease?!
- What kinds of diseases can you get from fungi?
- What are prions? How do they cause diseases?
- What is the structure of bacteria? of viruses?
- How do they replicate?
- What causes mumps? typhoid fever? tetanus? rabies? small pox? the flu? strep throat? cholera? By the end of this unit, you and your kids will know what causes these diseases and more!!



Genetics - You might want to do a basic unit about DNA & genetics. (We'll probably do that in the next year or so

Anatomy & Physiology (note: we generally reviewed the cells/tissues/organs/systems each year and studied ONE of the human body systems in depth each year) See our Human Body BUNDLE here.

> **Skeletal System Digestive System Circulatory Syste**

Cells, tissue, organs, body systems

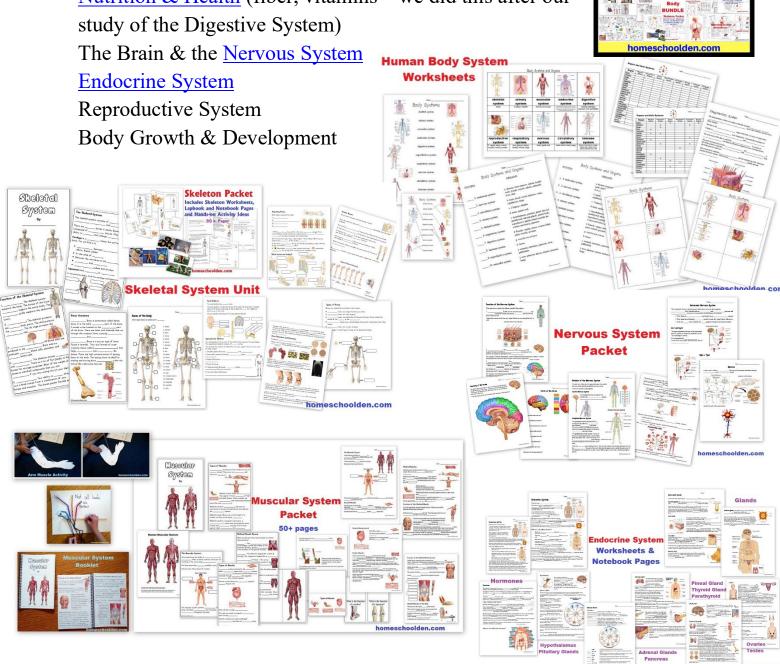
<u>Skeletal System</u> – structure & function of the bones

Muscular System

Circulatory System

Digestive System

Nutrition & Health (fiber, vitamins – we did this after our

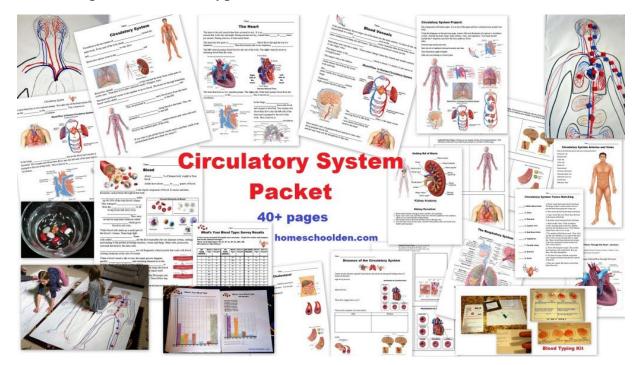


We studied the <u>Digestive system</u> when the kids were younger, but then did this unit again and went over the parts of the small and large intestines and went into much more detail about the liver, gall bladder and pancreas. We also did a unit on nutrition, vitamins and fiber (to touch on health/nutrition).



Hands-On Activity ideas and more!

<u>Circulatory System</u> – We talked about the heart, blood vessels – arteries, veins, and capillaries, what blood is composed of, blood types and more:



<u>Botany – 4 Main Plant Groups</u> Flowering Plants, Mosses, Ferns, and Cone-bearing plants – Plant Life Cycle, parts of a flower, parts of a seed, etc.

We went over the parts of a flower when the kids were younger, but I want to go over botany in more detail when the girls are in middle school. We covered the Plant Kingdom and talked about mosses, ferns, gymnosperms and angiosperms.



Chemistry:

Periodic Table:

Atoms – Atomic Structure; Bohr Model;

Elements and the Periodic Table (classifying matter: metals & nonmetals, mixtures & pure substances); names of elements – chemical symbols; symbols & atomic structure; periodic patterns; chemical families

Compounds & Chemical Change; chemical bonds (ionic & covalent bonds); Molecules; Building Molecules

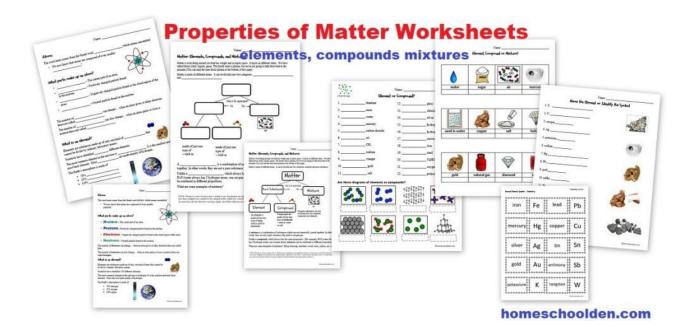
States of Matter, Physical & Chemical Properties of Matter, density



Properties of Matter Unit:

- Atoms
- Elements & Compounds
- Molecular vs. structural formulas
- Physical and Chemical Properties
- Basic definitions (of terms such as viscosity, elasticity, capillarity, ductility, malleability, etc.)
- Hands-On Activities of some of these properties (viscosity, cohesion, capillary action, etc.)
- Density Activities
- Mixtures: Solutions, Colloids and Suspensions
- Separating Mixtures



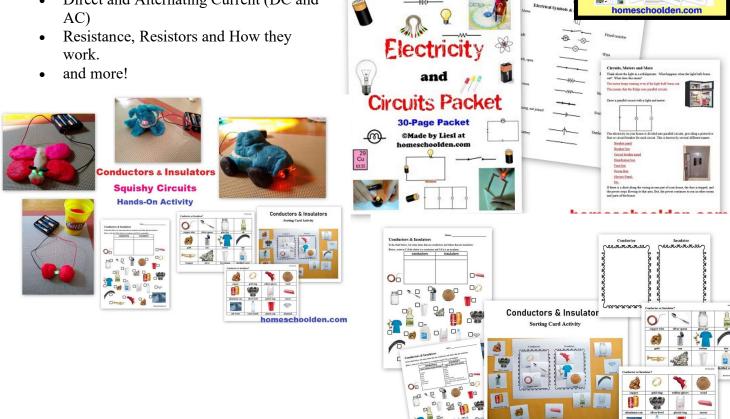


Electricity and Circuits

After we did the properties of matter unit, did a fun, hands-on unit on Electricity and Circuits. My daughter did this in 6th grade and really loved it!

My kids absolutely loved all the projects... from paper circuits, to squishy circuits, an art bot and more... while learning about

- Volts, amps, ohms
- Electrical circuits: Power source, load, conductor
- Simple Circuits
- Direct and Alternating Current (DC and

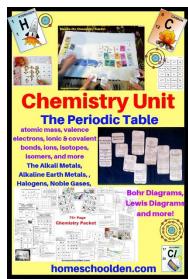


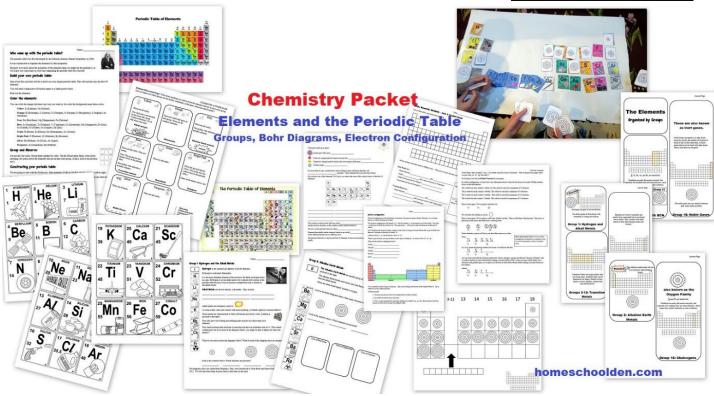
homeschoolden.com

Chemistry Unit

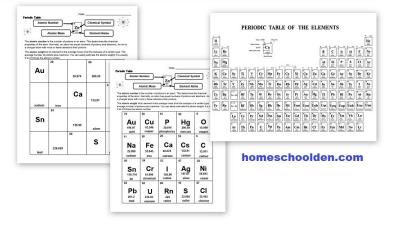
The Chemistry Unit goes into detail about the periodic table, valence electrons, periods, groups, Lewis Diagrams, and basic vocabulary such as ions and isotopes.

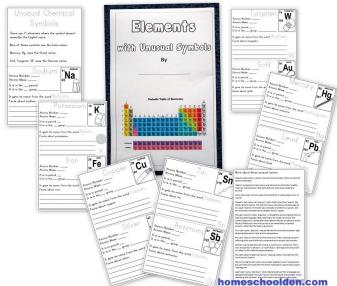
Students are introduced to the structure of the periodic table, Bohr Diagrams, Lewis Diagrams and electron configuration in a fun, hands-on way! There are also booklets for students to become familiar with the first 20 elements and elements with unusual names.





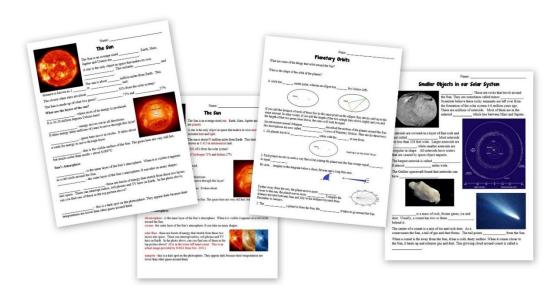






Physical Science

Solar System; planetary orbits (elliptical orbits; Kepler's Laws of Planetary Motion; the Sun (energy, layers of the Sun, Sun's atmosphere, etc.) the Universe. (We did a brief unit on this and have some free notebook pages about the layers of the sun, sun spots, elliptical orbits and things like that. You'll find these here: <u>Astronomy Middle School – free worksheets</u>)



Earth Science – We did this unit when the kids were younger, but then we came back and covered these topics again in more depth. (plate tectonics, faults, earthquakes, mountain making, volcanoes – the different types of lava, types of eruptions, types of volcanoes and more.) Plus, we used lectures by a professor from the Univ. of Illinois (on coursera)

Earth Science

Packet

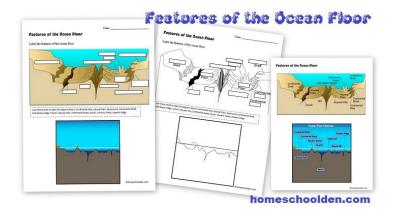
Worksheets

Lapbook Pages

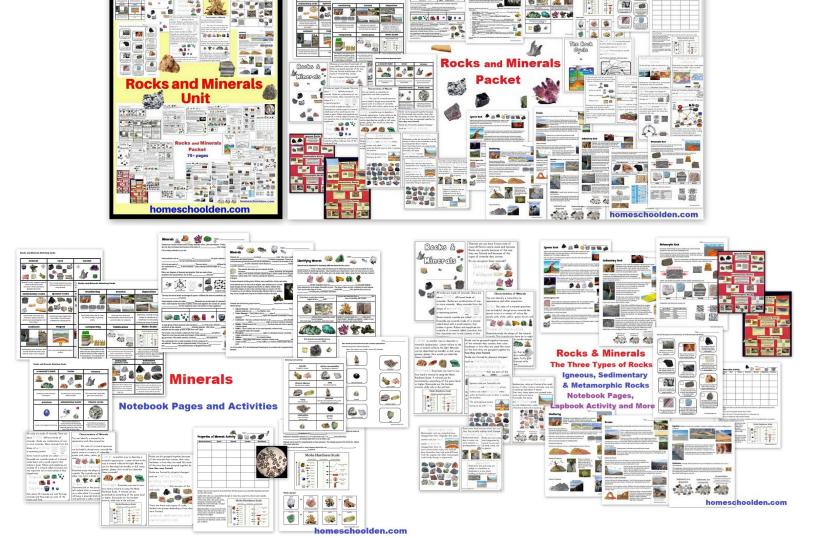
Durpacket is now over 100

Dages with hands-on activity lides, worksheets (with answer pages) and more

Oceans – You can do this both from the biology angle and also from the physical science perspective: ocean plates; tides & currents; ocean depth; water forms



<u>Rocks & Minerals</u>, We did this unit when my youngest was in 7th her older sister did it too because it had been so long since we had talked about it! We talked in a lot of detail about minerals – how to identify minerals and terms like luster, mineral habit, vitreous, asterism, intrusive, extrusive, weathering, erosion, deposition, the three types of rocks, rock cycle, etc.



Atmosphere; weather & climate; meteorology

The Earth & its atmosphere (we had already covered the <u>Layers of the Atmosphere</u> before doing the <u>Weather</u> Unit).

Layers of the atmosphere

Causes of weather

Weather systems, global wind systems, jet streams,

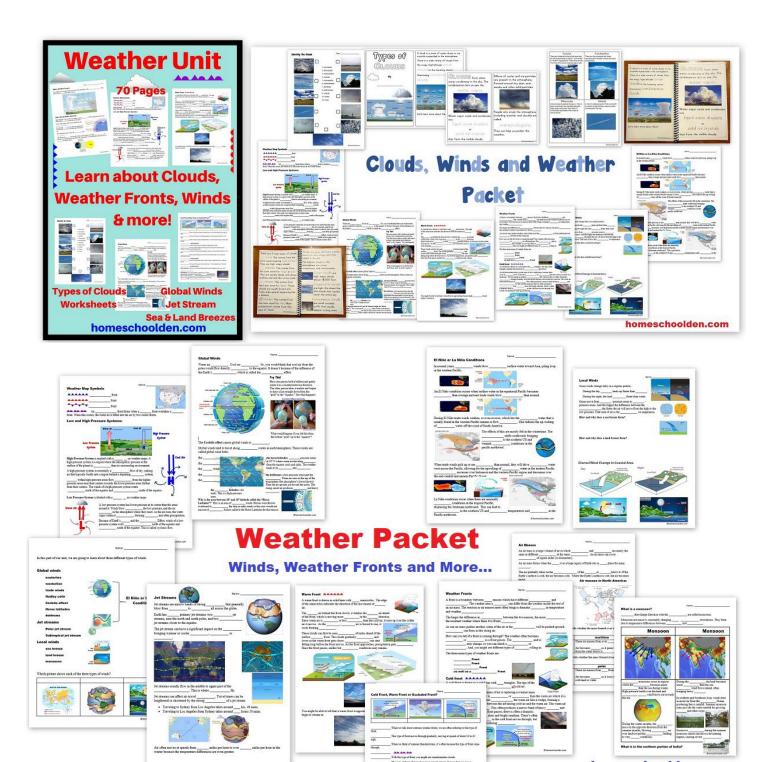
fronts, air masses

Storms

Climate

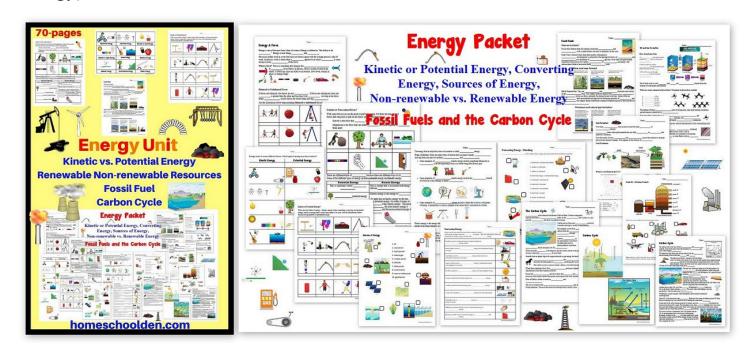
Weather analysis & forecasts

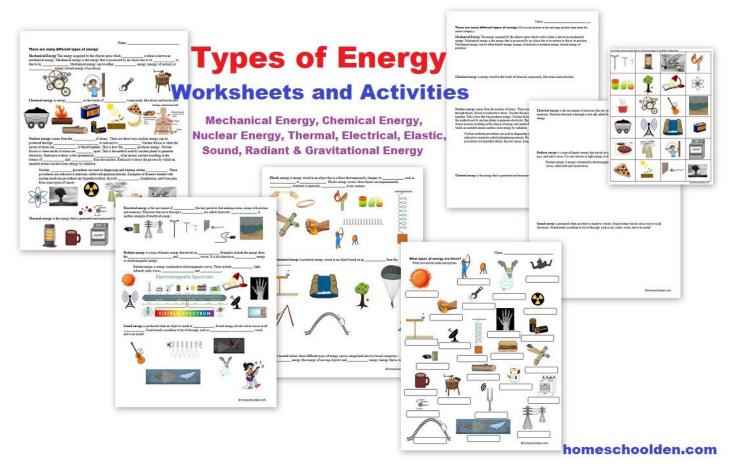


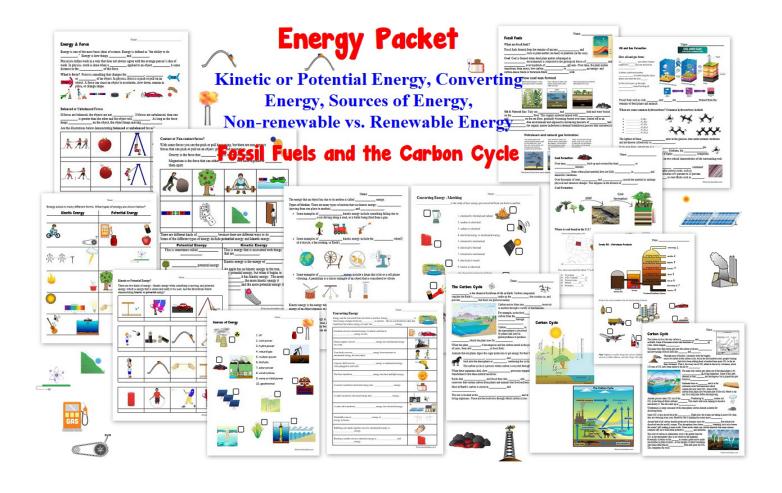


Physical Science

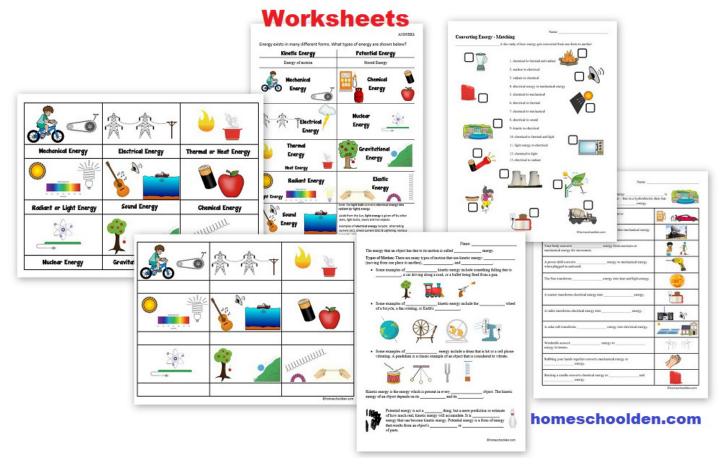
Energy: Motion, Forces – Gravity, Friction, Work & Energy (potential & kinetic energy), Machines, Newton's 3 Laws of Motion







Types of Energy, Converting Energy

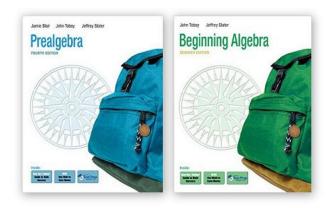


Middle School Math

There are tons of math curriculum options. We used Spectrum math workbooks and Math Reasoning (by the Critical Thinking Company) in the elementary years in addition to numerous worksheets that I made for the kids.

In middle school, we used PreAlgebra and Algebra by Toby and Slater. Those have

worked well for our family. I used an older edition so that I could purchase the Teacher's Edition (to be able to check answers) for a reasonable price used from Amazon. We used these on the recommendation of another homeschooling family and they worked well for us. They have good example problems & explanations.



You might also want to ask your homeschooling connections on and off line to see what worked for their families.

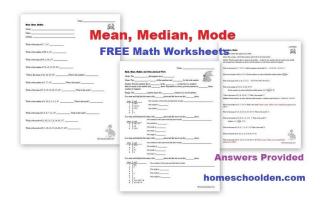
Note: When my kids were ready for Geometry, Algebra II, PreCalculus and Calculus we used Thinkwell. We purchased the textbook/workbook that goes along with those. This program provides video lectures (usually about 4-8 minutes long) with practice exercises that follow. We didn't use Thinkwell for Grade 6, PreAlgebra and Algebra (because I really liked the Toby & Slater books, but I know some homeschoolers who used Thinkwell in Middle School as well.

If you are interested, my share code will give you 15% off

http://thinkwellhomeschoo.refr.cc/lieslm

P.S. We have <u>free Mean, Median, Mode</u> <u>practice pages</u> on the website.

https://homeschoolden.com/2021/05/13/mean-median-mode-free-math-worksheets/



Social Studies & History

Geography

-		section first because if people have a good solid feel for geography they'll be able to d the nuances of world history much better!
	•	Countries of the world: 10 Days in Europe; 10 Days in Africa; 10 Days in Asia lese board games are fabulous for helping kids learn the location of countries on these stinents!)
		Geographic features, landforms, world landmarks
	□ var	We actually used pin maps quite a lot in grades 6-8 to help review the location of ious places around the world.
		World's deserts; oceans, seas & straits;
		World Facts
Histo	ry	
	has then but	e topics you choose, will really depend on what you've covered already. If your child n't had much history yet, you can start with the Ancients and move forward from re! Our family has chosen to weave in various American History Units along the way, some families spend a year studying American History from the Colonial Period ough Civil Rights
		American History (Colonial Period through the 20 th century) **See Am. His Checklist
		Ancient History - Mesopotamia/Sumer/Babylon, Egypt, Greece, Rome
		World History: China, India, Africa & and introduction to World Religions
		Middle Ages
	□ Ab	European History 1450-1650: Renaissance; Reformation; Age of Exploration; Age of Solutism; Scientific Revolution; Enlightenment
		American Revolution
		French Revolution, Napoleon and post-Napoleonic Europe
	and	American History – Many schools do an entire year of American History in 8 th grade

20 ^t	h Century and Beyond:
	Industrialization
	Nationalism
	WWI
	Roaring 20s
	Crash & Great Depression
	Rise of Hitler (30s)
	WWII
	Containment; Fear of Communism; Domino Effect; Berlin Crisis; Korean War
	1950s America
	Vietnam War
	Anti-War Movement
	Civil Rights Movement
	Great Society, Civil Rights Act
	1970s

Analyzing historical texts, interpretations, and evidence.

Civics & Government

If you haven't covered this already, you may want to go over the 3 branches of government; role of the federal vs. state and local governments; cabinet positions; basic facts about the U.S. constitution (What are the basic roles and functions of each branch of government? How many years can a President serve? How many years can a Senator or Congressman serve? How old do you have to be to hold a public office?)

Types of Government – As you move into the Age of Absolutism & Enlightenment this might be a good time to introduce your kids to the different forms of government (monarchs, democracy, oligarchy, junta)

Types of Society – I introduced my kids to these terms – socialism, communism, fascism, capitalism

World Leaders – Current Events



American History Checklist



American Beginnings

		Native Americans
		Age of Exploration – Spanish conquest/settlement of the Americas
		Colonies
		Conflict with Indians & the Colonial Empire/s
		Causes/Events leading to the American Revolution; War for Independence
The	New	Nation
		Starting the New Nation (Articles of Confederation; Constitution)
		Federalist Era
	□ Do	1800-1830 Jefferson, Madison, Monroe (Lewis & Clark; War of 1812; Monroe ctrine)
		Age of Jackson (2 party system; Trail of Tears)
	Trı Em	Era of Reforms – Inventions (McCormick, Goodyear, Howe/Singer, Fulton, Morse) Societal Reform (Dorothea Dix, Garrison, Nat Turner, Frederick Douglass, Sojourner ath, Harriet Tubman) Women struggle for equality (Lucretia Mott; Grimke sisters; ama Willard; Amelia Bloomer; Elizabeth Blackwell; Elizabeth Cady Stanton; Susan Bathony; Julia Ward Howe – 19 th Amendment in 1920)
The	Nati	on Grows, Divides, Reunites
		Slavery; Territorial Growth, War with Mexico, Expansion & Conflict
		Civil War
		Reconstruction – Radical Reconstruction
		Jim Crow Laws
The	Gro	wth of the Industrial Giant
		American West – Great Plains Conflicts
	□ pop	Industrial Age (1876-1900) Industries (iron, steel, coal) expand, RRs, unionism, bulist movement, urban growth

		Cities and immigrants (immigrant restrictions)		
		Progressive Era		
World	1 S1	tage -		
		Hawaii, War with Spain;		
		WWI		
		Roaring 20s, Isolationism		
		Great Depression, New Deal & Reform		
		1930s Europe; WWII		
		Cold War, Korean War		
		Vietnam War		
Socie	tal	Changes		
		1950s - Suburbia		
		1960s – Kennedy's New Frontier		
		Civil Rights Movement (Kennedy; LBJ)		
		Nixon Years		
	□ 1970s – Ford (Pardon of Nixon, Japan, Freedom of Information Act, Privacy Act, Oshortages/OPEC, Cambodia) and Carter (Energy Crisis, inflation, ERA defeated, SALT Camp David Accords, Iranian Revolution - Iran hostage crisis)			
		Reagan years (End of the cold war - Evil Empire; telling Mikhail Gorbachev to "tear wn this wall"; Reaganomics; GOP; Peace through strength; Star wars – strategic ense initiative; nuclear weapons cuts; tax reforms; air traffic control strike)		
		George H.W. Bush; Clinton; George W. Bush; Obama; Trump		

History

I wanted to mention that in the middle school years, I am having the kids work on different writing and research skills. I've had the kids

- do research papers
- do research and create power point presentations
- write essays
- start reading primary source documents and talk about how those fit into history
- start reading contemporary texts/books (like Uncle Tom's Cabin, for example) and talk about how that fits into the period
- see long term trends... I spend quite a bit of time trying to help them see long term trends... like how country relationships change over time... and influence other regions in the world.

I know that DBQ's (that stands for document based questions) and history essay writing are on the horizon for high school and college level history classes.

Language Arts

Language Arts – The list of literature books that kids can read is so long, I hesitate to even include any... but here are a few classics that you could start with:

Literature Books: There are so many amazing books, it's hard to create a comprehensive list. Here are a few options to get you started!

Call of the Wild A Wrinkle in Time Roll of Thunder, Hear my Cry

Tom Sawyer Lord of the Rings Lord of the Flies

Johnny Tremain Flowers for Algernon Animal Farm

Island of the Blue Dolphins Chronicals of Narnia The Great Gatsby

Anne Frank, Diary of a Young Girl To Be a Slave

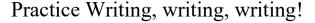
To Kill a Mockingbird Little Women The Catcher in the Rye

Catch 22 Snow Falling on Cedars Their Eyes were Watching God

The Scarlet Letter The Sun Also Rises

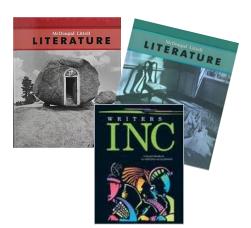
Literature Genres: Short stories, poetry, plays. Our family has been using Literature textbooks (McDougall Littell). I have the kids read for 20-30 minutes a day and they really love the selections in these books.

Grammar: This is a really great reference book for **Middle and High School Writing/Grammar:** Writers Inc, A Student Handbook for Writing and Learning. It is an excellent writing resource to have on hand for writing itself.



Essay Writing Skills (History for Long Essay Questions and Document-Based Questions)

- Thesis Statements
- Documents as Evidence
- Outside Evidence using historical evidence to support your argument in your essays
- Structuring your Essay
- Contextualization
- Explaining Documents POV, Situation, Audience, and Purpose
- Historical Reasoning



Language Arts Homeschool Checklist

	Write strong and varied sentences						
	Creative writing						
	Essay writing						
	o note taking						
	o outlines						
	writing papers						
	Letter writing						
	o informal						
	o formal						
	Using writing tools						
	o power points						
	o Word						
	 Excel spreadsheets 						
	o blog writing						
	□ Note taking skills (from lectures)						
	Note taking skills (from books)						
	Study Skills (being able to condense information and learn it using a method that works						
	for them highlighting, index	ca	rds, etc.)				
	Resumes (eventually, not whe	n th	ne kids are really young!)				
WRIT	ΓING GENRES:						
			D		41		
	minar with various writing gen are comfortable and familiar wi		Practice a wide variety of genr	es 1	in their writing, so		
they a		itii C	, and the second				
	short stories		poetry		reference articles		
	novels		haiku		editorials		
	novellas		limerick		TV shows		
	historical fiction		narrative poem		advertising		
	science fiction fantasy		drama comedies		websites brochures		
	mystery crime	П	historical dramas	Ш	brochures		
	ghost stories/horror		radio plays				
	myths		biography				
П	legends		autobiography				
	tall tales		essays				
	fables		speeches				
	folk tales		news articles				

LITERARY ANALYSIS: □ plot □ conflict \square setting □ characters o character trait o words o actions o protagonist, antagonist o archetype □ Voice o active vs. passive voice ☐ Elements of style: o point of view first person second person third person o dialogue o word choice o sentence structure imagery ☐ Sound devices o rhyme o rhythm o repetition o alliteration o onomatopoeia ☐ figurative speech o metaphor o simile o personification □ identify and analyze symbols and symbolism □ topics vs. themes □ recurring themes □ universal themes ☐ Main idea - supporting details \Box tone

	mood				
	making inferences				
	sequences				
	□ foreshadowing				
	□ argument - claim, support, counterargument				
	persuasive techniques				
	o bandwagon appeal ("everyone else" likes or does something)				
	o testimonial (endorsements)				
	o snob appeal - desire to be a part of a group				
	o loyalty - people's affiliation to a group				
	o emotional appeal - pity, fear, vanity				
	o word choice				
GRA	MMAR SKILLS				
	capital letters				
	□ commas				
	semicolons				
	□ quotation marks				
	apostrophes				
	italics/underlining				
	homophones - their/they're/there, etc.				
	plurals				
	parts of speech:				
	o subject, adjective, adverb, preposition, direct object, indirect object, object of a				
	preposition, pronouns, clause, phrase, article, coordinating conjunctions,				
	interjection, verbs - past, past participle, etc.				
	diagramming a sentence				
	editing				

Polishing your Essay Writing Skills

- 1. **Assign the essay**: Make sure you have a good grasp on the topic.
- 2. Give a set amount of time.
- 3. **Read the essay aloud** (Or, read it aloud to yourself.)
- 4. Go over the **basic expectations of an essay**. Make sure you know how essays are graded. Evaluate your own essay!
 - a. Did you show a good understanding of the material? Is the analysis thoughtful and insightful? Do you show original thought?
 - b. Is the content fair, good, wonderful or superb? Did you cover the basic facts?
 - **c.** Did **you provide specific details**? Did you go above and beyond, really providing some amazing details?
 - d. Is the main idea clear? Do you have a strong, clear thesis? Is it supported throughout the essay?
 - e. Is the essay readable? Does it flow well?
 - f. Are there many grammar and spelling mistakes?
 - g. Was there a strong introduction that hooked the reader in?
 - **h.** How was the **conclusion**?
- 5. Make corrections:

Identify the places where you've made mistakes. Read through your essays and, using a red/colored pen or pencil, add in any missing commas and circle any spelling mistakes.

Foreign Language Checklist

Are you teaching your kids a foreign language in your homeschool? I put together a free checklist of topics and units you might want to cover... no matter which language your student is learning.

I thought it might be useful if I put together a checklist of units and topics you might want to cover as your child starts learning a new language.

By the time your kids are in middle school, you will want to think about adding a foreign language to your homeschool program. Research shows that it is considerably easier for children to pick up a language. In Europe, most students start learning a foreign language in primary school. Most have definitely started by the age of 10. When I taught in a gymnaszium (grades 7-12 school) in Hungary, most of my students could speak one language fluently by 10th grade and were well on their way to becoming fluent in their second foreign language as well!

Most of us think of the languages that were offered when we were school: typically, Spanish, French and German. These days there are lots of other options as well: Chinese, Japanese, Arabic, Russian, Latin, Italian, and more. Another great option is ASL (American Sign Language). Many people don't realize that learning ASL will fulfill the requirements of a foreign language as well.

There are many options now to at least help students get started:

- Learn songs in the foreign language. (youtube has a lot of options!)
- Play games like bingo to help with vocabulary building
- Role play (Hello, My name is Joe Smith. What is your name? How old are you?)
- Online Programs and Apps can like DuoLingo, Memrise, busuu, 24/7 Tutor
- Online Courses: There are lots of different options from courses with video lessons like homeschoolspanishcurriculum.com
- Programs such as Rosetta Stone or Pimsleur. (My sister used Rosetta Stone with her kids for German. I have a
 friend who had her daughter use Rosetta Stone for Spanish.) These programs did not work for our family when
 we started.
- Watch TV programs and movies in the foreign language. (This year, my kids have watched about 15 or 20 movies in German!) This helps students learn the rhythm and cadence of the language.

What if you don't have the skill and background to teach a foreign language?

- use an online program
- look for a homeschool class in your area (and ask around in your local homeschool community).
- see if you can trade expertise with another homeschooling parent who can help your kids learn a foreign language
- hire a tutor in person or find an online tutor

Foreign Language Checklist

Topic	Comments/Notes
Numbers	
First Words: hello, goodbye, yes, no,	
I speak I don't speak What	
is that? What does mean?	
Stand up, Sit down, Listen (pay	
attention)	
Greetings and Questions	
How are you?	
What is your name?	
My name is	
How old are you?	
I amyears old.	
Family Words	
Conversation /Role Play	
What's your name? How old	
are you?	
This is my brother/sister/etc.	
Possessive Pronouns	
What is that?	
Do you have?	
Objects: Things around the room	
Parts of the Body	
What do people look like (My	
brother has brown eyes.)	
Clothes	
Colors	
The pants are blue. etc.	
Introduction to adjectives (grammar)	
Animals	
Pets	
Wild Animals	
Food	
Fruits and vegetables	
Meals	
Ordering	
Going shopping role play	

House – House	old Items	
Time – Number	S	
Weather, season	ıs, holidays	
	e weather?	
What seas	on is it?	
Over time	we built up our	
vocabular	y of fall words,	
winter wo	rds, spring words,	
summer v	vords	
Health and Illne	SS	
I have a f	ever.	
I'm sick.		
Do you h	ive a runny nose?	
Daily routines		
getting up		
brushing		
eating bre		
going to b		
Chores around		
	the dishes	
Doing the	•	
Making the		
Vacuumii		
Hobbies, activit		
	occer, piano, chess	
Riding a	oike, etc.	
Verbs (Gramma		
Regular v	s. Irregular verbs	
Country words,	Farm	
City words, bui		
Directions	-	
Traveling (airpo	ort, train station,	
transportation)		
Jobs, occupatio	ns ————	
Student subject	s in school	
Vacation		
Role play	ing	

High School, Level Courses

This is a list of some of the type of courses available to students at the high school level. This is probably not a complete list but might be a starting point as you look towards homeschooling through high school.

High School Mathematics

- Algebra 1
- Geometry
- Algebra 2
- Trigonometry
- Pre-Calculus
- Calculus 1 & 2

English

- American literature
- British literature
- Contemporary literature
- Creative writing
- Communication skills
- Debate
- English language and composition
- English literature and composition
- Humanities
- Journalism
- Literary analysis

Science

- Agriculture
- Astronomy
- Biology
- Botany
- Chemistry
- Earth science
- Electronics
- Environmental science
- Environmental studies
- Forensic science
- Geology
- Marine biology
- Oceanography
- Physical science
- Physics
- Zoology

Other Courses

Psychology

Business

- Accounting
- Business law
- Business management
- Consumer education
- Entrepreneurial skills
- Introduction to business
- Marketing
- Personal finance

Computer Science/Information Technology

- Animation
- App development
- Audio production
- Computer programming
- Computer repair
- Film production
- Graphic design
- Media technology
- Music production
- Typing
- Video game development
- Web design
- Web programming
- Word processing

If your student knows what college he/she is interested in, you might want to check out the kind of requirements needed for that college/university. Some schools require math through a certain level, two or four years of a foreign language, science courses such as biology, chemistry and physics and so forth. The earlier you look into college applications, the less stressful the process will be down the road!

Performing Arts

- Choir
- Concert band
- Dance
- Drama
- Guitar
- Jazz band
- Marching band
- Music theory
- Orchestra
- Percussion
- Piano
- Theater technology
- World music

Visual Arts

- 3-D art
- Art history
- Ceramics
- Digital media
- Drawing
- Film production
- Jewelry design
- Painting
- Photography
- Printmaking
- Sculpture

Vocational Education

- Auto body repair
- Auto mechanics
- Building construction
- Computer-aided drafting
- Cosmetology
- Criminal justice
- Driver education
- Electronics
- FFA
- Fire science
- Heating and cooling systems
- Hospitality and tourism
- JROTC
- Metalworking
- Networking
- Plumbing
- Production technology
- Refrigeration fundamentals
- Robotics
- Woodworking

Advanced Placement

Courses

- US Government
- European History
- World History
- U.S. History
- Biology
- Calculus AB
- Calculus BC
- Chemistry
- Biology
- Environmental Science
- Human Geography
- Macroeconomics
- Microeconomics
- Statistics
- Computer Science
- Computer Science Principles
- Music Theory
- Art History
- Physics
- Psychology
- Foreign Languages (Chinese, French, German, Italian, Japanese, Latin, Spanish, Spanish Literature)

College-Level Courses

- American Government
- Beginning Algebra
- Biology
- Calculus
- Chemistry
- College Algebra
- Economics
- Macroeconomics
- Microeconomics
- Physics 1

SAT Subject Tests: Some colleges request/require certain SAT subject test. Every test is now a one-hour timed test; multiple choice questions. There are 20 SAT Subject Tests in five general subject areas: English, history, languages, mathematics and science.

This is a list of the colleges that require, recommend and/or consider the SAT subject test.

AP vs. CLEP exams –AP=prestige science or engineering, AP offers more suitable tests CLEP= Not as prestigious. No need for an expensive course. CLEP was designed with self-study in mind. Year-round testing available.

We are a team! If you have suggestions of subjects, topics or skills to add to this resource guide, please feel free to send me a note! You can always reach me by email here:

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~Liesl