


science UNSNARLED



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Deanne simplify choosing
science curriculum in our
video on:  **YouTube**



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science

THE F-A-M-I-L-Y WAY

F – Faith/Philosophy

- F** **Christian:** Faith-based or including instructional religious content.
- N** **Neutral:** Avoids religious or theoretical topics or presents multiple viewpoints without preference.
- S** **Secular:** Contains content contrary to common Christian beliefs (i.e. evolution).

What worldview or philosophy do I want my children to know?

A – Approach to Teaching

- T** **Traditional:** Teacher-centered curriculum commonly used in classrooms that may include a text, teacher manual, tests, etc.
- C** **Charlotte Mason:** Developed by a 19th century educator who felt children learn best through understanding the world around them through living books and nature studies.
- C** **Classical:** Based on the Latin Trivium, includes the grammar stage (memorization and facts), logic stage (critical thinking), and rhetoric stage (developing/defending ideas).
- U** **Unit Study:** A thematic or topical approach centered around one topic that integrates multiple subject areas.

What approach fits my personality best?
What approach do I think fit my child(ren) best?

M – Money

What local or on line resources are available to help me meet my homeschooling needs?

Will a multilevel program fit my family's needs?

I – Individual

- A** **Auditory:** Learns through listening, talking out loud or reading out loud.
- V** **Visual:** Learns through seeing, prefers written instructions and visual materials.
- K** **Kinesthetic:** Needs to move their whole body.
- T** **Tactile:** Learn best through sense of touch.
- M** **Multi-sensory:** Curriculum that employ a variety of activities/components.

How does your child learn best? What motivates them?

L – Life

Are you educating young students, middle grades, high schoolers, or a mix? What events (a move, a new baby, illness, etc.) will be factors in your homeschool year? Do I have any specific science requirements that I must meet?

What season of life is your family in?

Y – You

- L** **Low Teacher Involvement:** Student-led materials; parent acts as a facilitator.
- M** **Medium Teacher Involvement:** A mix of teacher-led time and independent student work.
- H** **High Teacher Involvement:** Teacher-led lessons; may utilize discussions, hands-on activities & working together.

What are your time limitations? Am I OK with the mess of science labs at home?

science LEARNING STYLES



VISUAL LEARNERS...

- Prefer written instruction and/or visual materials.
- Excel by taking notes, marking & highlighting texts.

Note: A subcategory, Reading and Writing, retains info best by reading and writing information down.

Science Curriculum Options:

- Science Sheperd (Intro & Fundamental Courses)
- Memoria Press Science
- Elevate Science



Learn by seeing.



AUDITORY LEARNERS...

- Prefer to read aloud or listen to texts, songs.
- Excel by hearing instructions and talking through information.

Science Curriculum Options:

- Lyrical Science
- Science Sheperd (Intro to Science; Astronomy)
- 101 Science DVDs



Learn by hearing.



KINESTHETIC LEARNERS...

- Prefer to participate through active, whole-body movement.
- Excel by standing walking, or moving during lessons.

Curriculum Options:

- Reason for Science
- Discover! Science
- Young Science Series



Learn with moving.



TACTILE LEARNERS...

- Prefer hands-on activities, writing/typing, building.
- Excel when learning through created or built projects.

Note: Some sources combine tactile and kinesthetic definitions.

Curriculum Options:

- Apologia Science
- Berean Builders Science
- Science Chunks



Learn by touching.

Note: We have provided a few examples of science curriculum for each learning style. Some examples may fit into more than just one learning style.

SCIENCE CURRICULUM COMPARISON CHART

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	SCIENCE Comprehensive Programs	Grades												Religious Content			Price Range				
		PK	K	1	2	3	4	5	6	7	8	9	10	11	12	Christian	Neutral	Secular	\$	\$\$	\$\$\$
1.	Apologia Elementary Science	•	•	•	•	•	•	•	•							•				•	
2.	Apologia Jr. High & High School Science									•	•	•	•	•	•	•				•	
3.	Abeka Science		•	•	•	•	•	•	•	•	•	•	•	•	•	•					•
4.	BJU Press Science			•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
5.	AOP Science			•	•	•	•	•	•	•	•	•	•	•	•	•	•				•
6.	Elevate Science™ (Savvas) / Savvas Biology or Chem.		•	•	•	•	•	•	•	•	•	•	•	•	•			•		•	
7.	Elemental Science	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•		•		
8.	Berean Builders / Discovering Design		•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	
9.	Focus On Science (Gravitas/Real Science 4 Kids)		•	•	•	•	•	•	•	•							•				•
10.	Layers of Learning Science			•	•	•	•	•	•	•	•	•	•	•	•		•		•		
11.	Exploring the Building Blocks (Gravitas/RS4K)		•	•	•	•	•	•	•	•							•				•
12.	My Pals are Here / Earlybird Sci. (Marshall Cavendish)			•	•	•	•	•	•									•			•
13.	Science Matters (Marshall Cavendish)									•	•	•	•	•	•			•			•
14.	Purposeful Design Science			•	•	•	•	•	•	•	•	•				•					•
15.	Science Shepherd			•	•	•	•	•	•	•	•	•	•	•	•	•				•	
16.	God Made... Generations Science			•	•	•	•	•	•	•	•					•				•	
17.	Great Science Adventures / Common Sense Science		•	•	•	•	•	•	•	•	•						•		•		
18.	A Reason for Science			•	•	•	•	•	•	•	•					•					•
19.	God's Design for Science (Master Books)		•	•	•	•	•	•	•	•	•					•				•	
20.	R.E.A.L. Science Odyssey (Pandia Press)			•	•	•	•	•	•	•	•	•	•					•		•	
21.	Sassafras Science (from Elemental Science)	•	•	•	•	•	•	•	•								•			•	
22.	Home Science Adventures			•	•	•	•	•	•	•	•						•			•	
23.	Discovering Nature (Queen Homeschool)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				•	
24.	Christian Liberty Science	•	•	•	•	•										•				•	
25.	Let's Talk Science (Master Books)		•	•	•	•	•									•				•	
26.	DISCOVER! Science			•	•	•	•	•	•	•							•			•	
27.	Science Chunks			•	•	•	•	•	•								•			•	
28.	Memoria Press Science					•	•	•	•	•	•	•	•	•	•	•	•		•		
29.	Starline Press Science					•	•	•	•	•	•	•	•	•			•				•
30.	Ellen McHenry's Basement courses					•	•	•	•	•	•	•	•	•	•		•			•	
31.	Heron Science						•	•	•								•			•	
32.	Joy Hakim's Story of Science							•	•	•	•							•		•	
33.	Exploring the World of Science (J.H. Tiner)								•	•	•	•				•				•	
34.	Friendly Science								•	•	•	•	•	•	•		•			•	
35.	Science Power Basics								•	•	•	•	•	•	•			•		•	
36.	Novare Science									•	•	•	•	•	•	•	•			•	
37.	Paradigm Accelerated Science									•	•	•	•	•	•		•			•	
38.	Signs & Seasons: Astronomy									•	•	•	•	•	•	•	•			•	
39.	Master's Class Science: Bio/Chem/Phys (Master Books)											•	•	•	•	•				•	
40.	Science 101: Gen Sci/Biology/Chemistry/Physics											•	•	•	•	•	•			•	
41.	Conservation Science											•	•	•	•			•		•	
42.	Riot and the Dance: Biology											•	•	•	•	•	•			•	

This chart was assembled by Rainbow Resource Curriculum Consultants and is intended to be a comparative tool based on our own understanding of these programs and is not necessarily reflective of publishers' opinions. Some designations are "best fit," not absolute.

SCIENCE CURRICULUM COMPARISON CHART

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	Approach			Teacher Involvement			Labs/ Activities	Notes
	Traditional	Charlotte Mason	Classical	Low	Med	High		
1.		•				•	•	Lab supply kits available.
2.	•			•			•	Lab supply kits available.
3.	•					•	•	Lab kits available. Companion Health course at some levels.
4.	•					•	•	Lab supply kits available.
5.	•			•			•	Workbook-based.
6.	•				•		•	Student Books with 1-year digital teacher/student resources.
7.			•			•	•	Additional Text/Resources required. High School Physical Science uses free online Textbook.
8.	•				•		•	Lab Supply Kits available.
9.	•				•		•	Topical approach.
10.					•		•	Options for HS lab credit. Family (conceptual/unit study) style learning.
11.	•				•		•	Lab Kits available for Exploring the Building Blocks. REAL Science for Kids Digital Membership optional.
12.	•				•		•	From the same publisher as Singapore's <i>Primary Math</i> .
13.	•				•		•	Lower Secondary program is for grades 7-8.
14.	•				•		•	Teacher e-books available.
15.	•			•	•		•	Elementary are DVD/streaming based. Optional DVD support for Biology.
16.	•					•	•	Includes hymns and prayers.
17.		•				•	•	Multi-grade books. e-books available.
18.	•					•	•	Lab supply kits included; refills available.
19.	•				•		•	
20.			•		•		•	Lab kits available.
21.		•				•	•	
22.		•				•	•	Hands-on activity kits with worksheets and parent guide.
23.		•				•	•	No high school lab component; activities are largely notebooking and research.
24.	•				•		•	
25.		•				•	•	Reproducible student pages for family use.
26.	•					•	•	Includes teaching suggestions for all learning styles.
27.			•			•	•	Survey of Science using quality children's books. Flexible schedule.
28.			•		•			Most guides are religiously neutral.
29.	•			•			•	Workbook format.
30.	•				•	•	•	Topical courses. Helpful supplemental videos on author's YouTube channel.
31.	•			•			•	Self-pacing, mastery based. Additional lab supplies required.
32.		•			•		•	
33.				•			•	Conceptual approach.
34.	•				•		•	Video courses available.
35.	•			•				4th grade reading level; good for struggling students.
36.			•		•		•	Teaches from a modern secular geological timeline. Lab Kits available. Two Pathways available at the High School level.
37.	•			•				No high school labs; workbook format.
38.	•				•		•	
39.	•				•		•	Lab supply kits available.
40.	•			•			•	Includes PDF "Course Accreditation Program" (CAP) & Guidebook or purchase print.
41.	•			•			•	Online Teacher/Student Course.
42.	•				•		•	

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Questions: consultants@rainbowresource.com

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science ONLINE LABS

Visible Body:

<https://www.visiblebody.com/>

Get Body Smart/Kenhub (limited free/fee-based):

<https://www.getbodysmart.com/>

Virtual Fetal Pig Dissection:

<https://www.whitman.edu/academics/majors-and-minors/biology/virtual-pig>

Dissection 101 Site (Dogfish Shark, Earthworm, Clam, Crayfish, Sea Star (Starfish), Sheep Heart, Cow Eye, Frog and Perch):

<https://illinois.pbslearningmedia.org/collection/dissection-videos-for-classroom-use/>

Biology by Me:

<https://www.youtube.com/user/Biologybyme>

The Science Bank's Virtual Dissections (free and fee-based options):

<https://thesciencebank.org/pages/online-dissection-resources>

American Association of Chemistry

Teacher Resources:

<https://teachchemistry.org/classroom-resources>

CK12 Chemistry Simulations:

<https://interactives.ck12.org/simulations/chemistry.html>

CK12 Physics Simulations:

<https://interactives.ck12.org/simulations/physics.html>

Flinn Scientific Free Science Lab Activities (Chemistry, Biology, Physics, Earth Science):

<https://www.flinnsci.com/free-activities/>

*While these websites appear to be suitable for mature teens, it is recommended the parent(s) review these sites prior to use by their children. Rainbow Resource Center does not endorse nor is liable for content therein any sites listed above, these links are simply provided as a resource for homeschool families.

SUPPLEMENTAL WORKBOOKS:

- Spectrum Science
- 180 Days of Science/180 Days of Hands-On STEAM
- Core Skills Science
- Science by the Grade
- STEM:Engaging Hands-On Challenges
- Nature Connection

RESOURCES:

- Handbook of Nature Study
- Interactive Notebooks
- Kingfisher Science Encyclopedia
- Let's Read and Find Out Science
- Science Comics (Macmillan)
- Max Axiom Graphic Science Books
- Christian Liberty Nature Readers
- Barron's Visual Learning (Biology, Chemistry, Physics, Human Anatomy)
- How to Survive Middle School Science
- Nature School/Science through Nature Notebook

