THE ULTIMATE HOMESCHOOL SCIENCE SHEETI

A Comprehensive, Parent-Friendly Guide To Teaching and Learning Science At Home

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The ULTIMATE Homeschool Science Cheat Sheet! A Comprehensive, Parent-Friendly Guide To Teaching and Learning Science At Home
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Published by STEM Skool, Inc. P.O. Box 11571 Charlotte, NC 28209
www.stemskool.org
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ISBN: 978-0-578-72662-5



HELLO!

SOOO...THIS IS A TAD LONGER THAN A SINGLE SHEET!

This doesn't come as a surprise to anyone who knows me. I LOVE all things science education!

I've spent over 7 years researching homeschool curricula, and I'm thrilled to finally compile all of my favorite resources into a single document that I can share with the homeschool community.

I sincerely hope this cheat sheet proves to be immensely useful to you in your homeschool journey!



Ge Imoudu, Founder and Science + Engineering Facilitator.

With enormous help from STEM Skool Researcher and Teaching Assistant Daniel Zhang.



THE ULTIMATE HOMESCHOOL SCIENCE CHEAT SHEET!

A COMPREHENSIVE, PARENT-FRIENDLY GUIDE TO TEACHING & LEARNING SCIENCE AT HOME.

WHAT'S INSIDE?

PART ONE:

YOUR HOMESCHOOLING STYLE

Explore the 12 most prominent homeschooling styles. See which ones resonate with you and your family.

PART TWO:

NEXT GENERATION SCIENCE STANDARDS

Read a summary of the Next Generation Science Standards (NGSS) to see which topics to cover at each grade level.

PART THREE:

SCIENCE CLASSES & CURRICULA

View an extensive list of homeschool science curricula, kits, lab supplies, advanced placement classes, websites, PBS shows. YouTube channels and Netflix series.

PART FOUR:

BOOKS & MAGAZINES

In this section, I share my favorite science books, series and magazines.

PART FIVE:

MATH CURRICULA & RESOURCES

View the most popular homeschool math curricula, websites and resources.

PART SIX:

METHODS OF INQUIRY

Learn the steps of the Scientific Me<mark>thod and the</mark> Engineering Design Process.

PART SEVEN:

600+ HOMESCHOOL SCIENCE RESOURCES

Science projects, scientific modeling, science fairs and competitions, internships, scholarships, and more!

PART

Your homeschooling style

EXPLORE THE 12 MOST POPULAR HOMESCHOOL STYLES AND TEACHING METHODOLOGIES.



TRADITIONAL

Also called "School-At-Home," traditional homeschooling is where many homeschoolers begin their journey. The traditional homeschool looks very much like a brick-and-mortar school with a daily schedule, state-aligned curriculum, well-appointed classroom, and lecture teaching style. Assessments and record-keeping are straightforward, and transitioning back to school is seamless.

CLASSICAL

Harkening back to Ancient Greece and Rome, classical homeschoolers study subjects through thoughtfully interwoven chronological reading plans, which focus on Great Books (masterpieces and classics). Students come to understand the evolution and consequences of ideas over time and sharpen their critical thinking and reasoning skills through Socratic dialogue.





Charlotte Mason famously said, "Education is an Atmosphere, a Discipline, a Life." This popular homeschooling style is centered on an intentional home environment, plenty of time outside and the cultivation of good habits. Instead of textbooks, students learn from "living books" - high quality, well-written works of literature composed by passionate authors who make subjects come alive.

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MONTESSORI

Arguably one of the most prominent influencers of early childhood education, Maria Montessori is highly regarded among homeschoolers. Her child-centered perspective on learning resonates with many parents who lean toward a personalized, self-directed approach to homeschooling. Montessori classrooms are bright, expansive, inviting, orderly, and adorned with durable, high quality, natural materials, which are routinely and seasonally rotated.

There are five key areas of learning in the Montessori environment, including Practical Life (life skills, self-care and care of the environment); Sensorial (activities that refine the senses); Language (phonetic awareness); Mathematics (developed through the use of concrete learning materials); and Culture (includes science, geography, global studies, and history).

WALDORF

Developed in Europe by Rudolf Steiner in the early 1900s, the Waldorf education philosophy emphasizes a holistic, liberal arts approach. Formal education does not begin until age 7. From birth to age 6, children participate in nature-based creative play and hands-on learning. Elementary and secondary education focus on liberal arts, analytical free thinking, personal responsibility, and unity of mind, body and spirit.



MOORE

Dr. Raymond and Dorothy Moore are known as the "grandparents of modern homeschooling." Deeply religious, the Moore Formula ascribes to ancient Biblical philosophies. In their famous book, Better Late Than Early, the Moores advocate for formal education to start somewhere between 8 and 10 years old. After 10 years old, academics center on unit studies that build on the student's interests. At all ages, the Moore Formula encourages service, both at home, church and in the community.

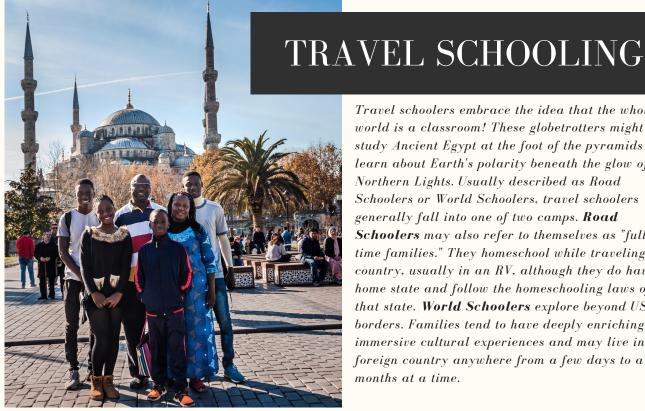
UNIT STUDIES

Practical and convenient, the unit studies approach is popular among families with children spanning multiple age groups. Unit studies, or thematic units, are time-specific investigations of a singular theme that may incorporate multiple subject areas into the overall study plan. For instance, a unit on agriculture might include a month-long study of plant biology, irrigation in Mesopotamia and mathematical models of the food supply chain.

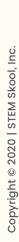
UNSCHOOLING

Perhaps more child-directed than any other homeschooling method, unschooling focuses squarely on the student's interests, curiosities, personality, and learning style. Education happens naturally and organically. Although unschooling is not formally directed by a set curriculum, learners often enjoy and excel in classes and programs offered online and in their communities.





Travel schoolers embrace the idea that the whole world is a classroom! These globetrotters might study Ancient Egypt at the foot of the pyramids or learn about Earth's polarity beneath the glow of the Northern Lights. Usually described as Road Schoolers or World Schoolers, travel schoolers generally fall into one of two camps. Road Schoolers may also refer to themselves as "fulltime families." They homeschool while traveling the country, usually in an RV, although they do have a home state and follow the homeschooling laws of that state. World Schoolers explore beyond US borders. Families tend to have deeply enriching immersive cultural experiences and may live in a foreign country anywhere from a few days to a few months at a time.





ECLECTIC

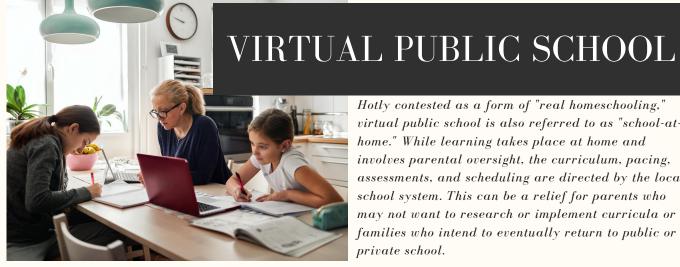
While researching all the different homeschool styles for The ULTIMATE Homeschool Science Cheat Sheet, I fell in love with virtually all the methodologies all over again. There are elements of each that resonate with my own ideas surrounding homeschooling my 3 very unique children. Perhaps that's why I'm an eclectic homeschooler; I pull a little from each methodology depending on the ebbs and flows of life.

Our school year typically kicks off with Montessoriinspired, literature-based thematic units presented in a traditional setting. But soon enough, my kids develop their own interests or want to accompany friends to other classes, and then, suddenly, we're unschoolers. When we visit my inlaws in West Africa, we become world schoolers. It's all fair game!

DE-SCHOOLING

Though I rarely see it listed among homeschooling methods, de-schooling is one of the most important transformations a family transitioning from public or private school can undergo. It refers to a period of time during which a family becomes exploratory, reflective and introspective about what homeschooling will look and feel like for them. There is no formal approach or curriculum - only a period of a few weeks to a few months to decompress and explore.





Hotly contested as a form of "real homeschooling," virtual public school is also referred to as "school-athome." While learning takes place at home and involves parental oversight, the curriculum, pacing, assessments, and scheduling are directed by the local school system. This can be a relief for parents who may not want to research or implement curricula or families who intend to eventually return to public or private school.



PART TWO: WHEN TO STUDY WHAT: FOLLOWING THE NEXT GENERATION SCIENCE STANDARDS.

Now that you have an idea of how you'd like to structure your homeschool, it's time to explore which science topics you should cover.

In Part Two of The Ultimate Homeschool Science Cheat Sheet, I'd like the share the Next Generation Science Standards, also known as my go-to guide for evaluating, teaching, developing, or implementing science curriculs.

What are the Next Generation Science Standards?

The Next Generation Science Standards (NGSS) provide a <u>Framework for K-12 Science Education</u>. In short, the standards outline which topics students should learn at each grade level.

Who developed the standards?

NGSS development began in 2011. It was a state-led effort with contributions from the <u>National Research Council</u> (NRC), <u>National Science Teaching Association</u> (NSTA), <u>American Association for the Advancement of Science</u> (AAAS), and a host of other educators, scientists, engineers, business leaders, and policymakers.

What are the Three Dimensions of Scientific Learning?

The NGSS emphasize three distinct dimensions of scientific learning that help students understand science:

- Fundamental scientific knowledge;
- Standard behaviors that scientists and engineers use to explain the world or solve problems; and
- Frameworks for scientific thinking across disciplines.

Summarizing the Standards

The following sections summarize the Next Generation Science Standards by grade level. Click on the link at the end of each section to view the Parent Guide for each level.

Learn more about the Next Generation Science Standards at: https://www.nextgenscience.org/.

GRADES K-2

- Forces, motions and interactions: pushing and pulling objects; colliding objects.
- Ecosystems and interdependent relationships: animals, plants and their shared environments.
- Energy and energy conservation: investigation of the relationship between the Earth and sun.
- Weather and climate: observe local weather conditions to describe patterns over time.
- Waves: light and sound
- Structures and properties of matter.
- Earth's systems: processes that shape the Earth.
- Space systems: patterns and cycles.
- Engineering design.

Visit the Grade K-2 Parent Guide: English | Spanish

GRADES 3-5

- Forces, motions and interactions: balanced and unbalanced forces; patterning and predicting motion; electrical and magnetic interactions between objects.
- Ecosystems and interdependent relationships: understanding how animals form and live in groups to stay alive; analyzing fossils; modeling how animals use food for energy.
- Inheritance and variations of traits: life cycles; the influence of the environment on traits.
- Energy: speed; energy transfer; fuels and natural resources.
- Weather and climate: describe weather conditions across seasons; describe climates in different parts of the world.
- Waves: light and sound: wavelength and amplitude.
- Plant and animal structure, function and information processing.
- Structure and properties of matter: atoms and subatomic particles; phase changes; properties of materials.
- Earth's systems: rocks; weathering; maps; distribution of water; layers of the Earth.
- Space systems: gravity; the solar system.
- Engineering design.

Visit the Grade 3–5 Parent Guide: <u>English</u> | <u>Spanish</u>

GRADES 6-8: MIDDLE SCHOOL

Physical Sciences:

- Structure and properties of matter: atomic structure; natural and synthetic materials.
- Chemical reactions: properties of substances; balancing reactions; thermal energy.
- Forces ans interactions: Newton's laws; electrical and magnetic forces.
- Energy: kinetic and potential energy; energy transfer.
- Waves and electromagnetic radiation.

Life Sciences:

- Structure, function and information processing: cellular biology of pants and animals.
- Matter and energy in organisms and ecosystems: photosynthesis; cycling of matter and flow of energy.
- Interdependent relationships in ecosystems: patterns of interactions among organisms across multiple ecosystems; biodiversity.
- Growth, development and reproduction of organisms: genetics and genetic mutations; sexual and asexual reproduction.
- Natural selection and adaptations: fossil patterns; anatomical relationships between model and fossil organisms; genetic variations of traits in a population.

Earth and Space Sciences:

- Space systems: model the Earth-sun-moon system; gravity and motions within galaxies and the solar system.
- History of Earth: geology; geoscience; fossils; rocks; continental shapes; seafloor structures; plate tectonics.
- Earth's systems: Earth's materials; the rock cycle; geoscience processes.
- Weather and climate: changes in weather conditions; patterns of atmospheric and oceanic circulation that determine regional climates; global warming phenomena.
- Human impacts on the environment.

Engineering Design:

 Defining criteria and constraints of a design problem; evaluating competing design solutions; analyze data.

Visit the Grade 6-8 Parent Guide: English | Spanish

GRADES 9-12: HIGH SCHOOL

Physical Sciences:

- Structure and properties of matter: atoms; the periodic table of elements; electrical forces.
- Chemical reactions: understand reactions at the atomic level; patterns of chemical properties.
- Forces and interactions: Newton's laws; mathematical relationships among forces; velocity, acceleration and momentum.
- Energy: energy flows and changes within systems.
- Waves and electromagnetic radiation: frequency, wavelength and speed of traveling waves.

Life Sciences:

- Structure and function: DNA structure of proteins; multicellular organisms.
- Matter and energy in organisms and ecosystems: photosynthesis; carbon-based molecules.
- Interdependent relationships in ecosystems.
- Inheritance and variation of traits: mitosis and meiosis; DNA and chromosomes; genetic variations.
- Natural selection and evolution.

Earth and Space Sciences:

- Space systems: the role of nuclear fission in the sun's core; astronomical evidence of light spectra; motion of distant galaxies; composition of matter in the universe.
- History of Earth: geology; plate tectonics.
- Earth's systems: analyze geoscience data.
- Weather and climate: describe how variations in the flow of energy into and out of Earth's systems result in changes in climate.
- Human sustainability: explain how the availability of natural resources, occurrence of natural hazards, and changes in climate have influenced human activity.

Engineering Design:

 Analyze a major global engineering design challenge, including criteria and constraints; evaluate costs, safety, reliability, and aesthetics as well as social, cultural and environmental impacts.

Visit the Grade 9-12 Parent Guide: English | Spanish

PART THREE:

CLASSES & CURRICULA

On this page, I've listed the most popular K-12 science curricula, including textbooks, unit studies, kits, online classes and resources, YouTube channels, and Netflix series.



COOL WEBSITES, PBS SHOWS, YOUTUBE

CHANNELS & NETFLIX

SECULAR OR NEUTRAL:

- 4H Curriculum (K-12)
- Blossom and Root (K-4)
- Build Your Library (K-12)
- BookShark (K-9)
- CK12 (K-12)
- Elemental Science (K-12)
- Glencoe iScience (6-8)
- Inspire Science by McGraw Hill (K-12)
- Khan Academy (9-12)
- Moving Beyond the Page (K-12)
- My Fun Science (4-12)
- Mystery Science (K-5)
- Real Science 4 Kids (K-8)
- REAL Science Odyssey (K-12)
- Science Fusion (K-8)
- Study.com Homeschool Science (3-12)
- Supercharged Science (K-12)
- Time 4 Learning (K-12)

INQUIRY-BASED LEARNING WITH STEM SKOOL. INC.

Flexible online course options. https://www.stemskool.org/

NON-SECULAR:

- Apologia (K-12)
- Beginnings Publishing (7-12)
- Behold and See (K-9)
- Berean Builders (K-12)
- BJU Press (K-8)
- Five In A Row (K-8)
- Heart of Dakota
- My Father's World (K-8)
- Noeo Science (1-8)
- Sonlight (K-12)
- Winter Promise (K-8)

LAB SUPPLIES & KITS:

- American Science & Surplus
- Carolina Biological Supply
- **Christian Book**
- Delta Education/FOSS
- Fat Brain Toys
- Homeschool Science Adventures
- KiwiCo
- **Lakeshore Learning**
- Nasco Education Supplier
- Mel Science
- Rainbow Resource Center
- Steve Spangler Science
- The Young Scientists Club

ADVANCED PLACEMENT (AP) HIGH SCHOOL STEM **COURSES:**

2-D Art and Design • 3-D Art and Design • Biology • Calculus AB • Calculus BC • Chemistry • Computer Science A • Computer Science Principles • **Environmental Science** • Physics 1 • Physics 2 • Physics C: Electricity and Magnetism • Physics C: Mechanics • Statistics Learn more at:

https://apstudents.collegeboard.org/

COLLEGE LEVEL **EXAMINATION** PROGRAM (CLEP):

Biology • Calculus • Chemistry • College Algebra • College Mathematics • Natural Sciences

 Pre-Calculus Learn more at:

https://clep.collegeboard.org/scienceand-mathematics

Bill Nye the Science Guy **Brain POP**

SERIES:

- **Brave Wilderness**
- **Crash Course**
- d'Art of Science
- **Engineering is Elementary**
- **Exploratorium**
- Freeschool
- **Gross Science**
- **Hour of Code**
- **How Stuff Works**
- <u>Kurzgesagt In a Nutshell</u>
- Magic School Bus
- Molly of Denali
- **NASA Kids Club**
- NASA Jet Propulsion Lab
- National Geographic Kids
- National Science Teaching **Association**
- Oceans
- Odd Squad
- **Operation Ouch**
- **Our Planet**
- Outschool
- StudyJams! by Scholastic
- The Spangler Effect
- The Who Was Show
- The Universe
- Science Books Online
- Science News for Kids
- Science Toys
- Scientific American
- SciShow Kids
- ScienceMax
- Sid the Science Kid
- Star Talk with Neil deGrasse Tyson
- TED-Ed
- **Wild Kratts**
- Zoom

PART FOUR:

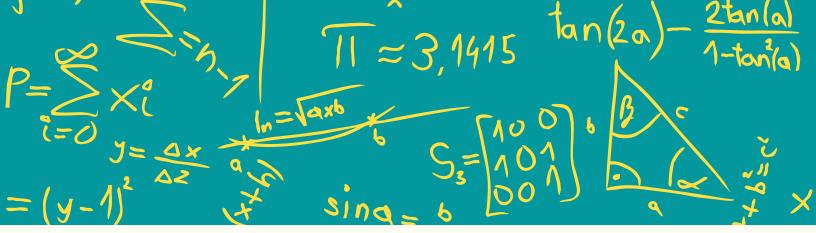
MY FAVORITE BOOKS & MAGAZINES

BOOKS AND BOOK SERIES

- 1. Absorbent Mind by Maria Montessori
- 2. <u>Ada Twist, Scientist, Iggy Peck Architect, Rosie Revere, Engineer and other books by Andrea Beaty</u>
- 3. DK Smithsonian Knowledge Encyclopedia
- 4.<u>I Love Science, I Love the Earth, Women In Science, Women in Art, and more by Rachel Ignotofsky</u>
- 5. Let's Read and Find out by AKJ Education
- 6. National Geographic Book of Why
- 7. The Incredible Plate Tectonics Comic by Kanani K.M. Lee
- 8. The Read Aloud Family by Sarah Mackenzie
- 9. The Science Book by National Geographic
- 10. Who Was Series from Penguin Random House
- 11. Zoey and Sassafras Series by Asia Citro

MAGAZINES

- 1. Anorak Magazines: Anorak and Dot
- 2. Cricket Media Magazines: Click, Ask and Muse
- 3. <u>Highlights</u>
- 4.<u>Kazoo</u>
- 5. SCOPE! Free Weekly Newsletter by STEM Skool, Inc.
- 6. <u>National Geographic Kids</u>
- 7. Owl Kids Magazines: Chirp, Chicadee, OWL StoryBox, AdventureBox, and DiscoveryBox
- 8.<u>Ranger Rick</u>
- 9. XYZA News for Kids



PART FIVE:

MATH CURRICULA & RESOURCES

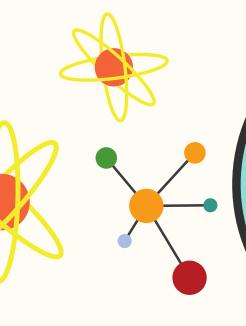
SLIGHTLY OFF-TOPIC, BUT I GET ASKED ABOUT MATH
CURRICULA AND RESOURCES A LOT. SO HERE ARE OF ALL
MY FAVORITE MATH PROGRAMS AND WEBSITES!

POPULAR CURRICULA

- 1. Art of Problem Solving
- 2.CTC Math
- 3.Beast Academy
- 4. Dimensions Math PK-5
- 5.Dimensions Math 6-8
- 6. Horizons Math
- 7.IXL Math
- 8.Khan Academy
- 9.Life of Fred
- 10. Master Books
- 11. MathHelp
- 12.Math Mammoth
- 13.Math-U-See
- 14. Mathematical Reasoning
- 15. Miquon Math
- 16. Perfection Learning
- 17. Right Start Math
- 18. Saxon Math
- 19. Shiller Math (Montessori)
- 20. Singapore Math
- 21. Spielgaben
- 22. Study.com Homeschool Math
- 23. Teaching Textbooks
- 24. Time4Learning
- 25. Wild Math

WEBSITES

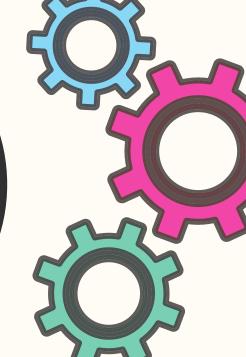
- 1.Buzz Math
- 2.Code.org
- 3. Corbettmaths
- 4.CueThink
- 5. DragonBox
- 6.DreamBox
- 7. Edgenuity
- 8.Education.com
- 9.eMATHInstruction
- 10.First In Math
- 11. Flocabulary
- 12.Freckle Math
- 13.<u>Greg Tang Math</u>
- 14. <u>National Council of Teachers of Mathematics</u> Illuminations
- 15.iStation Math
- 16.Learn Zillion
- 17. Mathletics
- 18. MIND Research Institute
- 19. MobyMax (Assessments and learning gaps)
- 20. Origo Education
- 21. Prodigy
- 22.Skoolbo
- 23. SplashLearn
- 24.SumDog
- 25.WootMath



PART SIX:

METHODS OF INQUIRY

How do scientists and engineers explore and investigate new phenomena?





THE SCIENTIFIC METHOD

ASK A QUESTION

Make an observation about the world around you, and ask a question.

FORMULATE A HYPOTHESIS

Do some background research to make an educated guess about what you've observed.

CONDUCT AN EXPERIMENT

Design and carry out an experiment that tests your hypothesis. Identify your variables.

ANALYZE THE RESULTS

Carefully analyze the data you gather from your experimentation.

PRESENT CONCLUSIONS

Provide an answer to your original question in the form of a report or presentation.

THE ENGINEERING DESIGN PROCESS

ASK

What's the problem, and what are the design criteria and constraints?

IMAGINE

Brainstorm solutions to the engineering design problem. Choose the best one.

PLAN

Draw a diagram of your best solution, and make an itemized list of materials.

CREATE

Using your plan and list of materials as a guide, create your engineering design.

IMPROVE

Test your design, and continuously make improvements until it's just right!

I sincerely hope you have enjoyed every section of The ULTIMATE Homeschool Science Cheat Sheet!

Here, in Part Seven, serious science students will find an extensive list of links to science projects, science fairs and competitions, scientific modeling resources, national science clubs and organizations, internships, volunteer opportunities, and scholarships.

SCIENCE PROJECTS FOR KIDS

- 1 Education.com Science Fair Projects
- 2 How to Do a Science Fair
 Project NASA Jet Propulsion
 Laboratory
- 3 <u>ISEF Winning Science Fair</u> <u>Projects Database</u>
- 4 NCSE EnvironMentors
- 5 Project Laboratory Mathematics
- 6 Science Bob
- 7 Science Buddies
- 8 Science Fair Central
- 9 Science Kids
- 10 Science Made Simple
- 11 <u>USA Science and Engineering</u> Festival

SCIENTIFIC MODELING

- 12 <u>Developing and Using Models -</u>
 <u>National Science Teaching</u>
 <u>Association</u>
- 13 EcoMobile and EcoXPT
- 14 Focus on Energy

- 15 High-Adventure Science
- 16 Interactions
- 17 Model My Watershed
- 18 <u>Modeling Hydrologic Systems in</u> <u>Elementary Science (MoHSES)</u>
- 19 MoDeLS
- 20 MPRES Toolkit for Teachers
 Conceptual Change
- 21 NASA Jet Propulsion Laboratory
- 22 <u>SageModeler</u>
- 23 Seismic Explorer
- 24 SimScientists
- 25 <u>STEM and Modeling George</u> <u>Mason University</u>
- 26 <u>Strategies For Using Interactive</u> <u>Simulations In Science Class</u>

SCIENCE FAIRS & COMPETITIONS

- 27 <u>AAN Neuroscience Research</u> Competition
- 28 <u>American Sleep Medicine</u> <u>Foundation High School Video</u> Contest
- 29 American Society of Human
 Genetics Annual DNA Day Essay
 Contest
- 30 <u>Austrian Young Physicists</u> Tournament
- 31 B.E.S.T. Robot Design Contest
- 32 <u>BioenergizeME Infographic</u> <u>Challenge</u>
- 33 BioGENEius Challenges

- 34 <u>Botball Educational Robotics</u> <u>Program</u>
- 35 Brain Awareness Video Contest
- 36 British Science Festival
- 37 Broadcom Masters
- 38 Brower Youth Awards
- 39 Cheltenham Science Festival
- 40 Coleopterists Society Youth Incentive Award
- 41 <u>Conrad Spirit of Innovation</u> <u>Challenge</u>
- 42 <u>Davidson Fellows</u>
- 43 Earthwatch Student Fellowships
- 44 eCYBERMISSION
- 45 Edinburgh International Science Festival
- 46 Envirothon
- 47 <u>Eskom Expo for Young</u> <u>Scientists</u>
- 48 ExploraVison
- 49 FIRST LEGO League
- 50 FIRST Robotics Competition
- 51 FIRST Tech Challenge
- 52 Future City Challenge
- 53 Future Problem Solving Program
- 54 Generation Nano
- 55 Gloria Barron Prize for Young Heros

- 56 <u>International BioGENEius</u> <u>Challenge</u>
- 57 <u>International Bridge Building</u> Contest
- 58 <u>International Genetically</u> <u>Engineered Machine</u> Competition (iGEM)
- 59 <u>International Movement for</u>
 <u>Leisure Activities in Science and</u>
 <u>Technology</u>
- 60 International Physics Olympiad
- 61 <u>International Young Eco-Hero</u> <u>Awards</u>
- 62 Jugendforscht (Youth Research)
- 63 <u>Junior Science and Humanities</u> <u>Symposia (JSHS) Program</u>
- 64 Lemelson-MIT InvenTeams
- 65 Marine Advanced Technology
 Education (MATE) ROV
 Competition
- 66 Microsoft Imagine Cup
- 67 MIT THINK Scholars Program
- 68 MIT Zero Robotics
- 69 NASA Goddard Optimus Prime Spinoff Challenge
- 70 NASA Human Exploration Rover Challenge
- 71 National Ocean Sciences Bowl
- 72 National Robotics Challenge
- 73 National Robotics League
- 74 National Science Bowl

- 75 <u>National Young Astronomer</u> <u>Award</u>
- 76 NC Science Festival
- 77 <u>Neuroscience for Kids Drawing</u> <u>Contest</u>
- 78 Odyssey of the Mind
- 79 PBS Design Squad
- 80 Physics Bowl
- 81 Physics Photo Contest
- 82 <u>President's Environmental Youth</u> Award
- 83 Regeneron International Science and Engineering Fair (ISEF)
- 84 Regeneron Science Talent Search
- 85 River of Words Youth Art and Poetry Environmental Literacy Awards
- 86 RoboCup
- 87 RoboFest
- 88 Rube Goldberg Machine Contest
- 89 Science Olympiad
- 90 SciFest
- 91 SeaPerch National Challenge
- 92 Shell Eco-marathon
- 93 Solar Car Challenge
- 94 <u>SourceAmerica Design</u> <u>Challenge</u>
- 95 <u>Space Settlement Design</u> <u>Contest</u>

- 96 Stockholm Junior Water Prize
- 97 <u>Team America Rocketry</u> <u>Challenge</u>
- 98 TEAMS Competition
- 99 <u>The International Science</u> Festival in Gothenburg
- 100 <u>Trinity College International</u> Robot Contest
- 101 TSA Student Competitions
- 102 <u>U.S. National Chemistry</u> <u>Olympiad</u>
- 103 USA Biology Olympiad
- 104 USA Brain Bee
- 105 Wide Science Festival
- 106 World Science Festival
- 107 <u>WWW Virtual Library: Directory</u> of Science Fairs
- 108 You Be the Chemist Challenge
- 109 Young Scientists Challenge

NATIONAL CLUBS & ORGANIZATIONS

- 110 4-H Club
- 111 Future Health Professionals
- 112 <u>Mu Alpha Theta Mathematics</u> <u>Honor Society</u>

INTERNSHIPS & VOLUNTEER OPPORTUNITIES

113 Adopt-a-Physicist Program (Multiple locations)

- 114 <u>Alzheimer's Association (Multiple</u> locations)
- 115 <u>American Cancer Society</u> (<u>Multiple locations</u>)
- 116 <u>American Chemical Society</u>
 <u>Project SEED (Multiple</u>
 locations)
- 117 American Fisheries Society
 Student Opportunities and
 Internships (Multiple locations)
- 118 <u>American Society for</u>
 <u>Engineering Education (Multiple</u> locations)
- 119 Appalachian Regional
 Commission/Oak Ridge National
 Laboratory Summer MathScience-Technology Institute
 (Multiple locations)
- 120 <u>Argonne National Laboratory</u> <u>Pre-College Research</u> <u>Participation Program (IL)</u>
- 121 <u>Aspirnaut Summer Research</u> <u>Internships for High School</u> <u>Students (TN)</u>
- 122 <u>Association of Zoos and</u> <u>Aquariums (Multiple locations)</u>
- 123 <u>Bay Area Red Cross Summer</u> <u>Internships (CA)</u>
- 124 <u>Baylor University CASPER High</u> <u>School Scholars Program (TX)</u>
- 125 <u>Boston University Research</u> Internship in Science & Engineering (MA)
- 126 <u>Broad Summer Scholars</u> <u>Program (MA)</u>

- 127 <u>Bronx Zoo Teen Internship</u> <u>Program (NY)</u>
- 128 <u>Brookhaven National Laboratory</u> <u>High School Research Program</u> (NY)
- 129 <u>Brookhaven National Laboratory</u> <u>STEM-Prep Summer Institute</u> (NY)
- 130 <u>Brooklyn Botanical Garden</u> <u>Apprentice Program for High</u> <u>School Students (NY)</u>
- 131 <u>Buck Institute for Age Research</u> <u>Summer Scholars Program (CA)</u>
- 132 <u>California Academy of Sciences</u> <u>Careers in Science Intern</u> <u>Program (CA)</u>
- 133 <u>Center for Excellence in</u> <u>Education (CEE) Research</u> <u>Science Institute (RSI) (MA)</u>
- 134 <u>Children's Hospital Colorado</u> <u>Child Health Research Internship</u> (CO)
- 135 <u>Children's Hospital Oakland</u> <u>Summer Student Research</u> <u>Program (CA)</u>
- 136 <u>CIA Internships (Multiple locations)</u>
- 137 <u>Cincinnati Children's Hospital</u> <u>Medical Center Job Shadow</u> <u>Program (OH)</u>
- 138 <u>City of Hope Cancer Center</u> <u>Summer Student Academy (CA)</u>
- 139 <u>Cleveland Clinic Department of</u> <u>Biomedical Engineering (OH)</u>

- 140 <u>Cooper Union University</u> <u>Research Internship Program</u> (NY)
- 141 <u>Coriell Institute for Medical</u> <u>Research Summer Internships</u> (NJ)
- 142 <u>Cornell Boyce Thompson</u> <u>Institute High School Internship</u> (NY)
- 143 <u>Dana-Farber/Harvard Cancer</u> <u>Center Continuing Umbrella of</u> <u>Research Experiences (CURE)</u> (MA)
- 144 <u>Earthwatch Institute Student</u> <u>Fellowship Programs (Multiple locations)</u>
- 145 Education Program for <u>Underrepresented Persons</u> (STEP-UP) (Multiple locations)
- 146 <u>Exploratorium Explainers</u> <u>Program (CA)</u>
- 147 <u>Feinstein Institute for Medical</u> <u>Research Student Internship</u> <u>Program (NY)</u>
- 148 <u>Fermi National Accelerator</u> <u>Laboratory QuarkNet Summer</u> <u>Research Program (IL)</u>
- 149 Fermi National Accelerator
 Laboratory TARGET: Science
 and Engineering Program (IL)
- 150 Forsyth Student Scholars Program (MA)
- 151 <u>Fred Hutchinson Cancer</u> <u>Research Center (WA)</u>
- 152 <u>George Mason University</u>
 <u>Aspiring Scientists Summer</u>
 Internship Program (DC and VA)

- 153 <u>Georgetown/Lombardi</u>
 <u>Comprehensive Cancer Center</u>
 <u>Summer High School Volunteer</u>
 <u>Program (DC)</u>
- 154 <u>Geosciences Bridge Program</u>
 (MD)
- 155 Girls on Ice (WA and AK)
- 156 Goddard Space Flight Center
 High School Internship Program
 (Multiple locations)
- 157 <u>Harvard Medical School Project</u> <u>Success Opening the Door to</u> <u>Biomedical Careers (MA)</u>
- 158 <u>Hofstra University Summer</u> <u>Science Research Program (NY)</u>
- 159 <u>Hutton Junior Fisheries Biology</u> <u>Program (Multiple locations)</u>
- 160 <u>Idaho National Engineering and</u> <u>Environmental Laboratory High</u> <u>School Internships (ID)</u>
- 161 <u>Indiana University Cancer</u> <u>Center Summer Research</u> <u>Program (IN)</u>
- 162 <u>Iowa State University College of</u>
 <u>Agriculture and Life Sciences</u>
 (CALS) George Washington
 Carver (GWC) Internship
 Program (IA)
- 163 <u>J. Craig Venter Institute</u> <u>Internship Program (MD, CA)</u>
- 164 <u>Johns Hopkins Applied Physics</u> <u>Lab ASPIRE Program (MD)</u>
- 165 Joint Bioenergy Institute (CA)
- 166 <u>Joint Biotechnology Institute</u> (CA)

- 167 <u>Joint Science Education Project</u> (<u>Greenland</u>)
- 168 <u>Kopernik Observatory High</u> <u>School Internship Program (NY)</u>
- 169 <u>LINC Summer High School</u> <u>Program (CA)</u>
- 170 <u>Los Alamos National Laboratory</u> <u>High School Co-op Program</u> (NM)
- 171 <u>Magee Women's Research</u> <u>Institute High School Summer</u> <u>Internship Program (PA)</u>
- 172 Maine Space Grant Consortium Research Internships for Teachers and Students (MERITS) (ME)
- 173 <u>Marine Advanced Technology</u> <u>Education Internships (Multiple locations)</u>
- 174 <u>Max Planck Florida Institute for</u>
 <u>Neuroscience Summer</u>
 <u>Research Internship (FL)</u>
- 175 Medical College of Wisconsin
 Apprenticeship in Medicine
 Program (AIM) (WI)
- 176 <u>Michigan State University High</u> School Honors Science Program (MI)
- 177 <u>Microsoft High School Intern</u> <u>Program (WA)</u>
- 178 MIT PRIMES-USA (Nationwide)
- 179 <u>Monell Science Apprenticeship</u> <u>Program (PA)</u>
- 180 Monmouth University School of Science Summer Research Program (NJ)

- 181 Mount Desert Island Biological
 Laboratory High School
 Summer Research Fellowships
 (ME)
- 182 NASA High School Internships (Multiple locations)
- 183 NASA Student Opportunities (Multiple locations)
- 184 NASA-University of Texas at Austin SEES Summer High School Intern Program (TX)
- 185 National Cancer Institute Cancer
 Epidemiology and Genetics
 Summer Internship Program
 (MD)
- 186 <u>National Cancer Institute Werner</u> H. Kirsten Student Intern <u>Program (MD)</u>
- 187 <u>National Eye Institute Diversity in Vision Research and Ophthalmology Internship (DC)</u>
- 188 National Heart, Lung and Blood Institute Summer Internship Program in Biomedical Research (MD)
- 189 National Human Genome
 Research Institute Summer
 Institute in Biomedical Research
 (MD)
- 190 National Institute of Arthritis and Musculoskeletal Diseases
 Summer Internship Program
 (MD)
- 191 National Institute of
 Environmental Health Sciences,
 Research Triangle Park
 Summers of Discovery (NC)

- 192 National Institute of Neurological
 Disorders and Stroke Summer
 Internship Program (Multiple
 locations)
- 193 National Institute of Standards and Technology Summer High School Intern Program (Multiple locations)
- 194 National Museum of
 Mathematics (MoMath) High
 School Volunteer Opportunities
 (NY)
- 195 <u>National Park Service Student</u> <u>Internships (Multiple locations)</u>
- 196 <u>National Park Service Volunteer</u>
 <u>Opportunities (Multiple</u>
 locations)
- 197 <u>National Science Foundation</u> <u>Student Opportunities (Multiple locations)</u>
- 198 <u>National Security Agency</u> (<u>Multiple locations</u>)
- 199 Naval Research Laboratory
 Science and Engineering
 Apprenticeship Program
 (Multiple locations)
- 200 <u>Naval Research Laboratory</u> <u>Student Volunteers (Multiple</u> locations)
- 201 New York Botanical Garden Internships (NY)
- 202 New York City Recreation and Parks (NY)
- 203 <u>Northrup Grumman (Multiple locations)</u>

- 204 Oak Ridge National Laboratory
 Higher Education Research
 Experiences (TN)
- 205 Oak Ridge National Laboratory
 Research Experiences (TN)
- 206 Oregon Health and Science University (OR)
- 207 <u>Pacific Northwest National Lab</u> <u>High School Student Programs</u> (WA)
- 208 <u>Pacific Northwest National</u> <u>Laboratory Programs for High</u> <u>School Students (WA)</u>
- 209 <u>Planetary Society Global</u>
 <u>Volunteer Network (Multiple locations)</u>
- 210 <u>Princeton Plasma Physics Lab</u> <u>Summer Internship Program</u> (NJ)
- 211 Rensselaer Research
 Experience for High School
 Students (NY)
- 212 Rockefeller University Science Outreach Program (NY)
- 213 Roswell Park Cancer Institute
 Summer Research Program for
 High School Students (NY)
- 214 Salk Institute for Biological
 Studies High School Summer
 Scholars Program (CA)
- 215 San Diego Zoo Internships (CA)
- 216 <u>Sandia National Laboratory Pre-</u> <u>college Internship Program (CA</u> <u>and NM)</u>

- 217 <u>Science and Engineering</u>
 <u>Apprenticeship Program, Army</u>
 (AL)
- 218 Scripps Research Institute High School Student Research Education Program (CA)
- 219 <u>Scripps Research Institute High</u> <u>School Student Research</u> <u>Education Program (FL)</u>
- 220 <u>Smithsonian Environmental</u> <u>Research Center Volunteer</u> <u>Opportunities (DC)</u>
- 221 <u>Smithsonian Institution Science</u> <u>Education Center Internship</u> <u>Program (DC)</u>
- 222 <u>Smithsonian Institution Youth</u> <u>Engagement Through Science</u> (DC)
- 223 <u>Sonoma School of Science and</u> Technology (CA)
- 224 SPARK Summer Internship Program for High School Students (WA)
- 225 <u>Stanford (SLAC) National</u> <u>Accelerator Laboratory Summer</u> <u>Student Programs (CA)</u>
- 226 <u>Stanford Medicine</u>
 <u>Cardiothoracic Surgical Skills</u>
 <u>and Education Center Summer</u>
 Internship (CA)
- 227 <u>Stanford University Accelerator</u> <u>Center SLAC Youth Opportunity</u> <u>Program (CA)</u>
- 228 <u>Stanford University Institutions</u> of Medicine Summer Research <u>Program (CA)</u>

- 229 <u>Stanford University RISE</u> <u>Summer Internship Program</u> (CA)
- 230 STEP-UP (Multiple locations)
- 231 <u>Stony Brook University Simons</u> <u>Summer Research Program</u> (NY)
- 232 <u>Student Conservation</u>
 <u>Association Internships (Multiple locations)</u>
- 233 <u>Summer Science Program</u> (SSP) in Astrophysics (CO, NM)
- 234 <u>SUNY Oneonta Summer</u> <u>Internships at the Biological</u> Field Station (NY)
- 235 <u>Teen Advocates for Science</u> <u>Communication (CA)</u>
- 236 <u>Teen Environmental Education</u> <u>Mentorship (CA)</u>
- 237 <u>Texas Tech University Clark</u> <u>Scholars Program (TX)</u>
- 238 <u>The Jackson Laboratory</u> <u>Summer Student Program (ME)</u>
- 239 <u>The Wistar Institute Summer</u> <u>Fellowship Program in</u> <u>Biomedical Research (PA)</u>
- 240 Thomas Jefferson National
 Accelerator Facility: J-Lab High
 School Summer Honors
 Program (VA)
- 241 <u>Translational Genomics</u> <u>Research Institute Helios</u> <u>Scholars Program (AZ)</u>
- 242 <u>Tufts University Adventures in Veterinary Medicine Program</u>
 (MA)

- 243 <u>U.S. Department of Agriculture</u> <u>Internships (Multiple locations)</u>
- 244 <u>U.S. Department of Energy</u> <u>Student Internships (Multiple locations)</u>
- 245 <u>U.S. Department of Energy</u>
 <u>Student Programs and</u>
 <u>Internships (Multiple locations)</u>
- 246 <u>UNH-IOL High School Summer</u> <u>Internship Program (NH)</u>
- 247 <u>University of California-Davis</u> <u>Young Scholars Program (CA)</u>
- 248 <u>University of California-San</u>
 <u>Francisco High School</u>
 <u>Biomedical Internship Program</u>
 (CA)
- 249 <u>University of California-Santa</u> <u>Barbara Research Mentorship</u> <u>Program (CA)</u>
- 250 <u>University of California-Santa</u>

 <u>Barbara Science & Engineering</u>

 <u>Research Academy (CA)</u>
- 251 <u>University of California-Santa</u> <u>Cruz Science Internship</u> <u>Program (CA)</u>
- 252 <u>University of Chicago Research</u> in the Biological Sciences (RIBS) (IL)
- 253 <u>University of Connecticut School</u>
 of Medicine High School
 Student Research
 Apprenticeship Program (CT)
- 254 <u>University of Iowa Secondary</u> Student Training Program (IA)
- 255 <u>University of Massachusetts</u>
 <u>Neuroscience and Mental Health</u>
 Summer Internship (MA)

- 256 <u>University of Minnesota Medical</u> <u>School Lillehei Heart Institute</u> <u>Summer Research Scholars</u> <u>Program (MN)</u>
- 257 <u>University of Missouri-St. Louis</u>
 Students and Teachers as
 Research Scientists (STARS)
 (MO)
- 258 <u>University of Nebraska Medical</u>
 <u>Center for Neurovirology and</u>
 <u>Neurodegenerative Disorders</u>
 <u>Travis B. Lewis Scholarship</u>
 <u>Award (NE)</u>
- 259 <u>University of Pittsburgh Cancer</u> <u>Institute Summer Academy (PA)</u>
- 260 <u>University of Rochester</u>
 <u>Laboratory for Laser Energetics</u>
 <u>Summer High School Research</u>
 Program (NY)
- 261 <u>University of Texas M.D.</u>
 <u>Anderson Cancer Center</u>
 <u>Summer Program in Biomedical</u>
 Sciences (TX)
- 262 <u>University of Texas Medical</u>
 <u>Branch Biomedical Research</u>
 <u>Training for High School</u>
 <u>Students (TX)</u>
- 263 <u>University of Texas Welch</u> <u>Summer Scholar Program (TX)</u>
- 264 <u>University of Utah Bioscience</u> <u>Summer Research Program for</u> <u>High School Students (UT)</u>
- 265 <u>University of Wyoming Summer</u> <u>Research Apprenticeship</u> <u>Program (WY)</u>
- 266 <u>USDA Forest Service</u> <u>Temporary Student Employment</u> <u>Program (OR)</u>

- 267 <u>USDA Internships (Multiple locations)</u>
- 268 <u>Vanderbilt University Research</u> <u>Experience for High School</u> <u>Students (TN)</u>
- 269 Walter Reed Army Institute of Research Gains in the Education of Mathematics and Science (MD)
- 270 <u>Washington University School of</u>
 <u>Medicine Young Scientist</u>
 <u>Program (MO)</u>
- 271 Wave Hill (NY)
- 272 Weizmann Institute of Science International Summer Science Institute (Israel)
- 273 YouSTEM (CA)

SCIENCE & ENGINEERING SCHOLARSHIPS

- 274 "Species On The Edge 2.0" Social Media Contest
- 275 \$2,000 PixelPlex Bi-Annual STEM Scholarship
- 276 100 Black Men of Prince George's County, Inc. Scholarship
- 277 4-H Youth in Action
- 278 <u>7X24 Exchange Rocky Mountain</u> <u>Chapter Scholarship</u>
- 279 <u>AAUW Return to Learning</u> <u>Scholarships</u>
- 280 ABC Humane Wildlife Control & Prevention, Inc. Academic Scholarship

- 281 Abel Wolman Fellowship
- 282 ACF Barnes W. Rose, Jr. and Eva Rose Nichol Scholarship Program
- 283 ACF Trythall Family Scholarship for Excellence in Continuing Education
- 284 ACF Woodcock Family
 Education Scholarship Program
- 285 ACS Scholars Program
- 286 AECOM Scholarship
- 287 <u>AFCEA Washington, DC Chapter</u> <u>Scholarship</u>
- 288 AFDO Scholarship Awards
- 289 <u>AFE Scholarships in Floriculture</u> <u>and Horticulture</u>
- 290 <u>African American Network of the Carolinas</u>
- 291 AHB Foundation Scholarship
- 292 AIAA Foundation Orville and Wilbur Wright Graduate Awards
- 293 Alabama Student Grant Program
- 294 <u>Alaska Space Grant Program-</u> Undergraduate
- 295 <u>Allamanda Garden Club</u> Horticulture Scholarship
- 296 Allegheny Mountain Section Air
 & Waste Management Assn.
 Scholarships
- 297 <u>Alpha Gamma Rho Horticulture</u> <u>Scholarship</u>
- 298 <u>American Association of Blacks</u> <u>in Energy Scholarship</u>

- 299 <u>American Society for Enology</u> <u>and Viticulture Scholarships</u>
- 300 American Society of Human Genetics Essay Contest
- 301 American Water Scholarship
- 302 <u>AMS Father James B.</u> <u>Macelwane Awards</u>
- 303 AMS Freshman Undergraduate Scholarship
- 304 <u>Anna N. Dosen Serbian</u> <u>Educational Fund</u>
- 305 <u>APA Judith McManus Price</u> <u>Scholarship</u>
- 306 Apprentice Ecologist Scholarship
- 307 <u>APS Undergraduate Summer</u> <u>Research Fellowship</u>
- 308 <u>APS/IBM Research Internship</u> <u>for Undergraduate Women</u>
- 309 <u>AREMA Undergraduate and</u> <u>Graduate Scholarships</u>
- 310 Arnold W. Fritz Scholarship
- 311 ARRL Charles Clarke Cordle Memorial Scholarship
- 312 <u>ARRL Foundation Scholarship</u> <u>Programs</u>
- 313 ASHS Collegiate Scholars
 Award
- 314 ASNT Engineering
 Undergraduate Scholarship
- 315 ASNT Fellowship Award

- 316 <u>ASPET Summer Undergraduate</u> <u>Research Fellow (SURF)</u> Individual Awards
- 317 <u>Association for Iron & Steel</u> <u>Technology Scholarships</u>
- 318 <u>Association of California Water</u> <u>Agencies Awards</u>
- 319 AWS Airgas Jerry Baker Scholarship
- 320 <u>AWS Airgas Terry Jarvis</u> <u>Memorial Scholarship</u>
- 321 AWS Arsham Amirikian Engineering Scholarship
- 322 <u>AWS Barbara and Richard</u> <u>Couch Hypertherm Scholarship</u>
- 323 <u>AWS Edward J. Brady Memorial</u> <u>Scholarship</u>
- 324 <u>AWS Howard E. and Wilma J.</u> Adkins Memorial Scholarship
- 325 <u>AWS John C. Lincoln Memorial</u> <u>Scholarship</u>
- 326 <u>AWWA Academic Achievement</u> <u>Awards</u>
- 327 BAFTX Undergraduate Award
- 328 <u>Banatao Family Filipino</u> American Education Fund
- 329 <u>Barry M. Goldwater Scholarship</u>
 <u>& Excellence in Education</u>
 Program
- 330 <u>Benjamin A. Gilman International</u> Scholarship Program
- 331 <u>Bernice McNamara Memorial</u> Scholarship

- 332 <u>Betty Stevens-Frecknall</u> <u>Scholarship</u>
- 333 <u>Beulah Frey Environmental</u> Scholarship
- 334 Blacks at Microsoft Scholarship
- 335 <u>Blandy Experimental Farm</u>
 <u>Undergraduate Research</u>
 Education Program
- 336 <u>BMW/SAE Engineering</u> Scholarship
- 337 Boren Scholarships
- 338 <u>Boston University's Noyce</u> <u>Scholarship Program In Math</u>
- 339 <u>Bradford-Sullivan Forest</u> <u>Landowners' Association</u> Scholarship
- 340 <u>California Capital Airshow</u> Scholarship
- 341 <u>Campus Safety Health &</u>
 <u>Environmental Management</u>
 <u>Association Scholarship</u>
- 342 Catching The Dream Program
- 343 <u>Center for Hellenic Studies</u> Fellowship
- 344 <u>Center for Women In</u> <u>Technology (CWIT) Scholars</u> Program at UMBC
- 345 <u>Central California Asian Pacific</u> Women Scholarship
- 346 <u>CGCS-Bernard Harris</u> Scholarship Program
- 347 <u>Charles "Chick" Roberts</u> Scholarship

- 348 Chicago Engineers Foundation
 Awards for Graduating HS
 Seniors
- 349 <u>Chicago Roofing Contractors</u> <u>Association (CRCA) Scholarship</u>
- 350 Clair A. Hill Scholarship
- 351 Clarkston Scholars Program
- 352 Clarkston's Scholars Program
- 353 CME Beef Industry Scholarship
- 354 Collabera STEM Scholarship
- 355 <u>College of Saint Rose Academic</u> Scholarships
- 356 <u>Colonel Kathleen Swacina</u> Scholarship
- 357 <u>Colorado Garden Show</u> Scholarships
- 358 <u>Committee 14 Yards &</u> Terminals Scholarship
- 359 Connecticut Building Congress Scholarships
- 360 <u>Creative Biolabs Scholarship</u> Program
- 361 CSHEMA Scholarship
- 362 <u>CSUB Dr. Ray Geigle Merit</u> <u>Scholarship</u>
- 363 <u>Daedalian Foundation</u> <u>Descendants Scholarships</u>
- 364 <u>Dairy Management, Inc.</u> <u>Scholarship Program</u>
- 365 <u>Dannon Yogurt, Probiotics and</u> the Gut Microbiome Fellowship Grant

366 Dave Caldwell Scholarship 383 Environmental Studies/Natural 400 Gates Millennium Scholars Science Scholarship Program Program 367 Davidson Fellows Scholarship 384 EPOC Environmental 401 GCFM Horticulture Scholarship 368 Davila/Trevino Memorial Scholarship Fund Scholarship 402 GCSAA Scholarships 385 EPP Undergraduate Scholarship 369 DCAS Scholarship 403 Genesis Healthcare Foundation **Program** Scholarships 370 Delaware Solid Waste Authority 386 ERC Eco Scholarship John P. "Pat" Healy Scholarship 404 GeneTex for Education Scholarship Program 387 Ernest F. Hollings 371 Denver Water Centennial Undergraduate Scholarship Scholarship 405 GeoKids LINKS Graduate 388 ExxonMobil/LNESC Scholarship Fellowship in Biology 372 DHS Summer Research Team **Program for Minority Serving** 389 First Responders Children's 406 George and Donna Nigh Public Institutions Foundation - Vincent Bennett, Jr. Service Scholarship Memorial Scholarship 373 Diversity STEM Scholarships 407 Georgia Association of **Environmental Professionals** 390 Florida Green Building Coaltion 374 DOE Computational Science Scholarship 2020 Environmental Scholarship Graduate Fellowship 391 Florida Stormwater Association 408 Gill-Elliott Scholarship 375 Dr. W. Wesley Eckenfelder Scholarship Award Scholarship 409 Gladys Carol Scholarship 392 FNGA National Foliage 376 ECS Biannual Meeting Travel 410 Gloria Barron Wilderness Foundation/James H. Davis Society Scholarship Grants Scholarship 377 Edwards Lifesciences 411 GRCF Armando "Frank" Quaglia 393 Folsom Garden Club Foundation Scholarship Veteran's Scholarship **Scholarship** <u>Program</u> 412 GRCF Joshua Esch Mitchell 394 Fontana Transport Inc. Scholars 378 Eleanor K. Buckley Memorial Aviation Scholarship Program Scholarship 413 GRCF Patricia & Armen 395 Franklin D. Boyce Annual Health 379 Elms College STEM Oumedian Scholarship Scholarship **Scholarships** 414 GRCF Violet Wondergem Health 396 Friends of MCC Foundation 380 Emily M. Hewitt & Stephen Science Scholarship **Scholarships**

397 Furman University Furman

398 Gannett Fleming Scholarship

Scholars Program

399 Garden Club of America

Scholarships

415 Harlem YMCA bai Corporate

416 Harold Colby/Ray Barton NH

Memorial Scholarship

Association of Septage Haulers

Scholarship Award

Stocking Memorial Scholarships

381 EngineerGirl Essay Contest

Science Foundation

Scholarships

382 Environmental Engineering and

- 417 <u>Harvest Land Scholarship</u> <u>Program</u>
- 418 Hazen and Sawyer Scholarship
- 419 HDR One Water Industry Scholarship
- 420 <u>Heartland Goldens and Mini</u> <u>Goldendoodles Veterinarian</u> Scholarship
- 421 Heinlein Society Scholarship
- 422 <u>Henry J. and Pauline M.</u> <u>Armstrong Scholarship</u>
- 423 <u>Herman and Katherine Peters</u> <u>Foundation Scholarship</u>
- 424 Holly A. Cornell Scholarship
- 425 Hyundai Scholarship
- 426 <u>IEEE Charles LeGeyt Fortescue</u> <u>Scholarship</u>
- 427 <u>IEEE Life Members' Fellowship</u> <u>in Electrical History</u>
- 428 <u>IFMA Foundation Scholarship</u> <u>Program</u>
- 429 <u>Indian Health Service</u> Scholarships
- 430 <u>Indiana Algebra Project College</u> Scholarship
- 431 <u>Indiana Engineering</u> <u>Scholarships</u>
- 432 <u>International Young Eco-Hero</u> Award
- 433 Iota Sigma Pi BP Scholarship
- 434 <u>lowa Association for Energy</u> <u>Efficiency Scholarship</u>

- 435 <u>ISA Educational Foundation</u> <u>Scholarship</u>
- 436 <u>IWEA Environmental Career</u> Scholarship
- 437 <u>IWSH Essay Scholarship</u> <u>Contest</u>
- 438 <u>Jacob And Rita Van Namen</u> <u>Marketing Scholarship</u>
- 439 <u>James M. & Erma T. Freemont</u> <u>Scholarship Program</u>
- 440 <u>James M. & Martha J. Perry</u> <u>Agricultural Scholarship</u>
- 441 <u>Jane M. Klausman Women in</u> Business Scholarship
- 442 <u>Jesse L. Jackson-Fellows Toyota</u> Scholarship
- 443 <u>Jewels Academy College</u> Scholarship
- 444 <u>Jim & Anna Hyonjoo Lint</u> Scholarship
- 445 <u>John Deere Dealer Scholarship</u> <u>Program</u>
- 446 <u>Jonathan Baldwin Turner</u> Scholarships
- 447 <u>Joseph James Morelli Legacy</u> Foundation Scholarship
- 448 <u>JVS Chicago Scholarship</u> Program
- 449 <u>Kearns Louis-Jean Memorial</u> Scholarship
- 450 <u>Kentucky Student Technology</u>
 <u>Leadership Program (STLP)</u>
 Scholarship

- 451 Kris Paper Legacy Scholarship For Women In Technology
- 452 <u>L.D. "Dusty" Rhoades and</u>
 <u>Josephine Wright Memorial</u>
 <u>Scholarship</u>
- 453 <u>Larson Aquatic Research</u> <u>Support Scholarships</u>
- 454 LaSPACE LURA Program
- 455 <u>Lemelson-MIT Student Prize</u>
- 456 Leo Bourassa Scholarship
- 457 <u>Les Dames d'Escoffier Colorado</u> <u>Chapter Scholarship</u>
- 458 <u>Libbie H. Hyman Memorial</u> <u>Scholarship</u>
- 459 <u>Lisa Kaminski Memorial</u> Scholarship
- 460 <u>Lois Britt Memorial Pork Industry</u> <u>Scholarship Program</u>
- 461 <u>Loren and Becky Roslund</u> <u>Scholarship</u>
- 462 <u>Louis-Edward Nicklies</u> <u>Scholarship</u>
- 463 <u>Ludo Frevel Crystallography</u> <u>Scholarship</u>
- 464 M. Hildred Blewett Fellowship
- 465 <u>Massachusetts High Demand</u> Scholarship Program
- 466 <u>Material Handling Education</u> <u>Foundation, Inc. Scholarship</u>
- 467 <u>Matsuo Bridge Company Ltd. of</u>
 <u>Japan Scholarship</u>
- 468 <u>Measurement Science</u>
 Conference Scholarship

- 469 Medical Research Scholarships
- 470 Mel C. Marshall Student Scholarship
- 471 Mercatus Joseph Schumpeter
 Undergraduate Fellowship
- 472 <u>Michael R. Mettler Memorial</u> <u>Scholarship</u>
- 473 <u>Microsoft Tuition Scholarship</u> Program
- 474 <u>Mississippi Space Grant</u>
 <u>Consortium Graduate Fellowship</u>
 <u>Program</u>
- 475 MIT THINK Out of the Box Scholars Program
- 476 Monterey Bay Officer Spouses
 Club Scholarship Award
- 477 <u>Mueller Continuing Education</u> <u>Scholarship</u>
- 478 Murphy Memorial Scholarship
- 479 <u>Mycological Society of America</u> <u>Awards</u>
- 480 NACE Foundation Academic Scholarship
- 481 NASA Iowa Space Grant Consortium Scholarship
- 482 NASF Foundation Scholarships
- 483 <u>National Candy Technologists</u> <u>Scholarship</u>
- 484 National Debt Relief Scholarship
- 485 <u>National Eagle Scout</u> <u>Association STEM Scholarship</u>
- 486 National FFA Scholarships

- 487 <u>National GEM Consortium</u> <u>Fellowships</u>
- 488 <u>National Greenhouse</u>
 <u>Manufacturers Association</u>
 (NGMA) Scholarship
- 489 <u>National Potato Council</u> Scholarship
- 490 <u>Navajo Generating Station</u> <u>Navajo Scholarship</u>
- 491 NCWIT Award for Aspirations in Computing
- 492 NDS Scholarships
- 493 NDSGC American Indian Scholarship
- 494 NDSGC Lillian Goettler Scholarship
- 495 NDSGC Pearl I. Young Scholarship
- 496 Nebraska High School Senior
 Animal Interest Scholarship
- 497 Nellie Martin Carman Scholarship Fund
- 498 Neptune Technology Group Scholarship
- 499 New York Farm Bureau AG
 Youth Scholarship
- 500 NHA Past Presidents' Legacy Scholarship
- 501 NIH Undergraduate Scholarship Program
- 502 NJ Space Grant Consortium
 Undergraduate Summer
 Fellowships

- 503 Norman S. Baldwin Fishery Science Scholarship
- 504 North Dakota Space Grant
 Consortium Undergraduate
 Scholarship
- 505 Northern Tier Hardwood

 Association Community Forests
 Scholarship
- 506 <u>Novus Biologicals Scholarship</u> <u>Program</u>
- 507 NPFDA Scholarship Foundation, Inc.
- 508 NSF Graduate Research Fellowship Program
- 509 NSHSS STEAM Scholarships
- 510 Nuts, Bolts & Thingamajigs (NBT) Scholarships
- 511 OAWWA Graduate/Adult
 Continuing Education Degree
 Scholarship
- 512 Ohio EPA Scholarship
- 513 Oklahoma Future Teachers Scholarship Program
- 514 <u>Olin E. Teague Memorial</u> <u>Scholarship</u>
- 515 Ontario County Casella Scholarship
- 516 Oregon Space Grant
 Consortium Scholarship and
 Fellowship Program
- 517 Out To Innovate Scholarships for LGBTQ+STEM Students

518 Parkinson's Disease Foundation Summer Student Fellowship Program	536 Richard S. Thompson and Marion L. Thompson Memorial Fund	554 Sigma Xi Grants-in-Aid of Research
519 PG&E Scholarships	537 Richard T. Gates Engineering and Technology Endowed	555 Silicon Valley Community Foundation Latinos In Technology Scholarship
520 <u>Phoenix AISES Scholarship</u>521 PMI Alaska Chapter Scholarship	Challenge Scholarship	556 SMA Native American STEM
522 PMI Eastern Iowa Chapter	538 Robert J. Meyer Organic Farming Scholarship	Scholarship 557 SME Education Foundation
Scholarship	539 Rocky Mountain Biological Lab REU Awards	Scholarships
523 PMI New York City Chapter Scholarship	540 Roy E. Jorgensen Memorial	558 SMRP Scholarship
524 PMI North Carolina Chapter Scholarship	Scholarship	559 <u>Society of Automotive Engineers</u> <u>Scholarships</u>
525 PMI Phoenix Chapter	541 RTF Cyber Security Scholarship542 RTK Scholars Program	560 Society of Women Engineers - Lehigh Valley Section
Scholarship	543 SAE Engineering Scholarships	561 Society of Women Engineers
526 PMI Ray Piper Global Project Management Education Scholarship	544 <u>SAE/Ford Partnership for</u> Advanced Studies Scholarship	(SWE) Scholarship Program 562 Society of Women Engineers
527 PMI Robert J. Yourzak	545 Samsung@First Scholars	Freshman Scholarships
Scholarship Award 528 PMI Silver Spring Chapter	546 <u>Samuel Huntington Public</u> <u>Service Award</u>	563 <u>Sonny Roden Memorial</u> <u>Scholarship</u>
Scholarship	547 SAPA Scholarship & Excellence	564 <u>Southern Automotive Womens</u> Forum Scholarship
529 PMI Tulsa Chapter Scholarship	in Education Program	565 Stantec Scholarship
530 PSGC Graduate Research Fellowship Program at Penn State	548 SBB Research Group STEM Scholarship	566 Study & Internship Program (SIP) in Germany - UAS7
531 PSGC Undergraduate	549 <u>Scarlett Family Foundation</u>550 <u>SEG Scholarships</u>	567 SVC Foundation College Scholarship
Scholarship 532 R&D Systems Scholarship	551 SEMA Memorial Scholarship	568 SWANA Land of Lincoln Chapter
533 Regeneron Science Talent Search Scholarship	552 Sheep Heritage Foundation	Scholarships 569 SWE Golden Gate High School
534 Renate W. Chasman Award	Memorial Scholarship 553 Siena Heights University S-	Scholarship Program 570 TCA Roof Scholarships
535 Richard L. Brooks Memorial	STEM Scholarships	570 TCA Beef Scholarships

Scholarship

571 TEACH Grant

- 572 <u>Teacher Education Scholarship</u> <u>Program of the Alabama Space</u> <u>Grant Consortium</u>
- 573 <u>TELACU College Success</u> <u>Program</u>
- 574 Texas UK Award
- 575 <u>The American Indian Science</u> <u>and Engineering Society</u> <u>Scholarships</u>
- 576 <u>The Collegiate Inventors</u> <u>Competition</u>
- 577 <u>The Craig & Galen Brown</u> Foundation Scholarship
- 578 <u>The David C. Lizárraga</u> <u>Fellowship</u>
- 579 The DeNise Scholarship Fund
- 580 <u>The Desire To Inspire</u> <u>Scholarship</u>
- 581 <u>The Desk and Derrick</u> <u>Educational Trust Scholarships</u>
- 582 <u>The Edison International STEM</u> <u>Scholarship</u>
- 583 The Elevating Futures
 Scholarship Fund
- 584 The Fulbright Program
- 585 <u>The Harry S. Truman</u> <u>Scholarship Program</u>
- 586 The Institute for Humane Studies
 Summer Fellow Program
- 587 <u>The Jackie Spellman</u> <u>Scholarship</u>

- 588 <u>The Jewish Federation of</u>
 <u>Metropolitan Chicago Academic</u>
 Scholarship
- 589 <u>The John Grossheim Memorial</u> <u>Scholarship</u>
- 590 <u>The Mary Lou Marks Smith</u> <u>Scholarship</u>
- 591 <u>The Maureen D. Keller</u> <u>Undergraduate Scholarship</u>
- 592 <u>The Melanie Foundation</u> Scholarship
- 593 The NAVSEA Scholars Program
- 594 The New York State Grange
 Cornell Fund
- 595 The Robert Noyce Scholarship
- 596 <u>The Rubber Division, ACS</u> <u>Undergraduate Scholarship</u>
- 597 <u>The SMART Scholarship-for-</u> <u>Service Program</u>
- 598 The U. K. Gupta Family Scholarship Endowment
- 599 <u>The Vegetarian Resource Group</u> <u>College Scholarship</u>
- 600 <u>Theodore Gordon Flyfishers, Inc.</u> <u>Founders Fund Scholarship</u>
- 601 <u>Thermo Fisher Scientific</u> <u>Antibody Scholarship</u>
- 602 Thomas R. Camp Scholarship
- 603 <u>Tidewater AGC Educational</u> <u>Scholarships</u>
- 604 Tien Bui Memorial Scholarship
- 605 <u>Timothy S. and Palmer W.</u> Bigelow, Jr. Scholarship

- 6 Tocris Scholarship Program
- 607 <u>Triangle Scholar-Leader</u> <u>Scholarship</u>
- 608 Truman D. Picard Scholarship
- 609 <u>Trythall Family Scholarship for</u> <u>Excellence in Continuing</u> Education Fund
- 610 TSGC Columbia Crew Memorial Undergraduate Scholarships
- 611 TVIW Scholarship
- 612 <u>Two Ten Higher Education</u> <u>Scholarship</u>
- 613 <u>U.S. Stockholm Junior Water</u> Prize
- 614 <u>Union Pacific William E. Wimmer</u> Scholarship
- 615 <u>USDA 1890 National Scholars</u> <u>Program</u>
- 616 Washington HECB American Indian Endowed Scholarship
- 617 Westbrook Scholarship
- 618 <u>Western Digital Scholarship</u> Program
- 619 WGA Mary Macey Scholarship
- 620 <u>Winston Churchill Foundation of</u> the USA Scholarship Program
- 621 <u>Women in Defense Michigan -</u> STEM Scholarship
- 622 Women In Defense Scholarship
- 623 Women in STEM Scholarship
- 624 ZONTA Milwaukee Scholarships