



Many of these are reposts from The Daimon Institute for the Highly Gifted, but FRC Team 604 has added to this list. We hope you find this useful in these challenging times of online learning.

Our favorite site: [www.FIRSTinspires.org](http://www.FIRSTinspires.org). Programs for grades K-12.

**Our Engineering and Science Activities Book**, using common household items, are available in 7 languages and meets NGSS standards. Teachers in San Jose have access to these books, and our recordings of some of these activities will be posted on CreaTV San Jose, (CreaTV San Jose manages four public and education channels for the City of San Jose. **150,000** Comcast Cable subscribers in San Jose and parts of Campbell watch locally produced programming on [Community 15](#), [Classrooms 28](#) (pre-K through grade 12) and [Silicon Valley 30](#).)

**LEIGH High School** has an outstanding **STEM outreach program**, including online classes, activities, and interviews with well know scientists. This is a great resource. <https://stemenrichmentyouth.com>.

**IEEE robotics information:**

Robots: Your Guide to the World of Robotics: <https://robots.ieee.org>

Learning Resources: IEEE Robotics Website: [https://Learning Resources: IEEE Robots Website: Your Guide to The World of Robots - TryEngineering Summer Institute](https://LearningResources.IEEERobotsWebsite:YourGuideToTheWorldofRobots-TryEngineeringSummerInstitute)

**Intuitive Surgical**, maker of the **da Vinci Surgical Robot**: [www.intuitive.com](http://www.intuitive.com)

And if you want to see surgery on a grape:

<https://youtu.be/KNHgeykDXFw>

**Boston Dynamics** now sells SPOT. <https://youtu.be/wlkCQXHEgjA>

And now it has an arm! <https://youtu.be/6Zbhvaac68Y>

Other robots from Boston Dynamics: <https://youtu.be/BFK9lkez32E>

**NASA:** Robotics Lesson Plans for Students:

<https://www.nasa.gov/audience/foreducators/robotics/lessonplans/index.html#.YCri4GhKjD4>

**Micro:bits:** is an open source hardware ARM-based embedded system designed by the BBC for use in computer education in the United Kingdom. It is inexpensive (\$20), and there are many lessons available to download to teach computer programming, aimed at middle school ages. <https://microbit.org/lessons>

**Relevant to the Covid-19 Pandemic:**

<https://www.edutopia.org/article/using-pandemic-teaching-tool>

<https://www.nea.org/advocating-for-change/new-from-nea/how-teachers-are-integrating-covid-19>

<https://sharemylesson.com/collections/coronavirus>

FREE ONLINE COURSES (Watch recorded university lectures from universities around the world. Classes include ((but are not limited to)): Chemistry, Biology, Physics, Microbiology, Climate Change, Math, Business, Psychology, Engineering, computer programming) (Most free online learning sites have mobile apps as well)

Academic Earth: <http://academicearth.org/>

Alison: <https://alison.com/>

BBC Learning: <http://www.bbc.co.uk/learning/>

Carnegie Mellon University OLI: <http://oli.cmu.edu/>

Coursera: <https://www.coursera.org/>

edX: <https://www.edx.org/>

FutureLearn: <https://www.futurelearn.com>

iversity: <https://iversity.org/>

Khan Academy: <https://www.khanacademy.org/>

MIT Open Courseware: <https://ocw.mit.edu/index.htm>

Open Yale Courses: <http://oyc.yale.edu/>

open2study: <https://www.open2study.com/>

OpenLearn: <http://www.open.edu/openlearn/free-courses>

Saylor: <https://www.saylor.org/>

Stanford Online: <http://online.stanford.edu/courses>

YOUTUBE CHANNELS

AsapScience: <https://www.youtube.com/user/AsapSCIENCE>

Bozeman Science: <https://www.youtube.com/user/bozemanbiology/>  
Bunsen  
Burns: <https://www.youtube.com/channel/UCFiQZoh3DAWBt81eGtdp62Q/>  
ChemistNATE: <https://www.youtube.com/user/chemistNATE>  
Crash Course Kids: <https://www.youtube.com/user/crashcoursekids/>  
CrashCourse: <https://www.youtube.com/user/crashcourse>  
Everyday Science TV: <https://www.youtube.com/user/EverydayScienceTV/>  
HighSchool Science  
101: <https://www.youtube.com/channel/UCqmJHgZzYJ3VYZeGYfZoa3g>  
It's Okay To Be Smart: <https://www.youtube.com/user/itsokaytobesmart/>  
KhanAcademy: <https://www.youtube.com/user/khanacademy/>  
Kurzgesagt – In a Nutshell: <https://www.youtube.com/user/Kurzgesagt/>  
Mastering Organic Chem: <https://www.youtube.com/user/MasterOrganicChem>  
MinutePhysics: <https://www.youtube.com/user/minutephysics/>  
MIT Course Ware: <https://www.youtube.com/user/MIT/>  
National Geographic: <https://www.youtube.com/user/NationalGeographic/>  
Periodic Videos: <https://www.youtube.com/user/periodicvideos>  
SciShow Kids: <https://www.youtube.com/user/scishowkids>  
SciShow Psych: <https://www.youtube.com/channel/UCUdettijNYvLAm4AixZv4RA>  
SciShow Space: <https://www.youtube.com/user/scishowspace>  
SciShow: <https://www.youtube.com/user/scishow/>  
ScienceMom: <https://www.youtube.com/c.../UC-QcZISbFb9EiIEQ41cVhwx/featured>  
Smarter Everyday: <https://www.youtube.com/user/destinws2/>  
Veritasium: <https://www.youtube.com/user/1veritasium>  
Yale courses: <https://www.youtube.com/user/YaleCourses>

IDEAS, INSPIRATION & SCIENCE NEWS (websites which deliver educational content meant to entertain you and stimulate your brain)

American Chemical Society: <https://www.acs.org/content/acs/en.html>  
Australian Academy of Science: <https://www.science.org.au>  
Australasian Science: <http://www.australasianscience.com.au>  
BBC Future: <http://www.bbc.com/future>  
BBC Bitesize: <https://www.bbc.co.uk/bitesize>  
BBC Teach: <https://www.bbc.co.uk/teach>  
Big Think: <http://bigthink.com/>  
Discover Magazine Blogs: <http://blogs.discovermagazine.com/>  
Harpocrates Speaks: [www.harpocratesspeaks.com](http://www.harpocratesspeaks.com)  
Left Brain/Right Brain: <https://leftbrainrightbrain.co.uk/>  
Live Science: <https://www.livescience.com>  
IAP - InterAcademy Panel: <http://www.interacademies.net>  
International Union of Pure and Applied Chemistry: <https://iupac.org>  
National Geographic: <http://www.nationalgeographic.com/>  
Nature: <http://www.nature.com>  
NewScientist: <https://www.newscientist.com/>  
Pharyngula: <https://freethoughtblogs.com/pharyngula/>

Popular Science: <https://www.popsci.com/>  
Popular Science: [www.popsci.com/blog-network](http://www.popsci.com/blog-network)  
Popular Science Australia: <http://www.popsci.com.au/>  
Royal Institution of Great Britain: <http://www.rigb.org>  
Royal Society of Chemistry: <http://www.rsc.org/>  
Science Alert: [www.sciencealert.com](http://www.sciencealert.com)  
Scientific American: <https://www.scientificamerican.com>  
Scientific American Blogs: <https://blogs.scientificamerican.com/>  
Science-Based Medicine: <https://sciencebasedmedicine.org>  
Science News for Students: <https://www.sciencenewsforstudents.org/>  
Science News: <https://www.sciencenews.org/>  
Science News: [www.sciencenews.org/blogs](http://www.sciencenews.org/blogs)  
Scitable: <https://www.nature.com/scitable>  
Seriously Amazing: <https://www.si.edu/>  
Skeptical Raptor: [www.skepticalraptor.com/skepticalraptorblog.php](http://www.skepticalraptor.com/skepticalraptorblog.php)  
Society for Science: <https://www.societyforscience.org/>  
The Skeptics' Guide to the Universe: [www.theskepticsguide.org](http://www.theskepticsguide.org)  
The Royal Australian Chemical Institute Incorporated: <https://www.raci.org.au/>  
Virology Blog: [www.virology.ws](http://www.virology.ws)  
Wired Science Blogs: [www.wired.com/category/science-blogs/](http://www.wired.com/category/science-blogs/)  
World Health Organisation: <http://www.who.int/en/>  
You Are Not So Smart: <https://youarenotsoSMART.com/podcast>

## FREE TEXTBOOKS & E-BOOKS

American Institute of Math (Free Math books): <https://aimath.org/textbooks/approved-textbooks/>  
Archive.org: <https://archive.org> (non-profit library of millions of free books, movies, software, music, websites, and more)  
Biochem Free and Easy: <http://biochem.science.oregonstate.edu/.../biochemistry-free-...>  
Bookboon: <http://bookboon.com/>  
Books Should Be Free: <http://www.loyalbooks.com/>  
BCCampus Open Ed: <https://open.bccampus.ca/find-open-textbooks/>  
BCCampus Free: <https://open.bccampus.ca>  
College Open Textbooks: <http://www.collegeopentextbooks.org/>  
E-books Directory: <http://www.e-booksdirectory.com/>  
Free Science Info: <http://www.freescience.info/index.php>  
Free Science Books: <http://physicsdatabase.com/book-list-by-title/>  
FullBooks: <http://www.fullbooks.com/>  
LibriVox: <https://librivox.org/>  
Mark Bishop's Chemistry: [http://preparatorychemistry.com/Bishop\\_Chemistry\\_First.htm](http://preparatorychemistry.com/Bishop_Chemistry_First.htm)  
Open Culture.com: [http://www.openculture.com/free\\_textbooks](http://www.openculture.com/free_textbooks)  
Open Textbook Library: <http://open.umn.edu/opentextbooks/>  
Open Textbooks BCcampus: <https://open.bccampus.ca/>  
Open Textbooks: <http://www.oerconsortium.org/discipline-specific/>

OpenTextbookCulture: [http://www.openculture.com/free\\_textbooks](http://www.openculture.com/free_textbooks)  
OpenStax CNX: <https://cnx.org/>  
Public Library of Science: <https://www.plos.org/>  
Science Books Online: <https://www.sciencebooksonline.info/>  
ScholarWorks: <https://scholarworks.gvsu.edu/books/>  
Textbook Revolution: [http://www.textbookrevolution.org/index.php/Main\\_Page](http://www.textbookrevolution.org/index.php/Main_Page)  
Textbooks Free: <http://www.textbooksfree.org>  
University of California: <http://www.cool4ed.org>  
Virgins Community College  
Free: <https://courses.candelalearning.com/catalog/tidewater>  
WikiBooks: [https://en.wikibooks.org/wiki/Main\\_Page](https://en.wikibooks.org/wiki/Main_Page)

#### MORE FREE TEXTBOOKS BECAUSE THEY'RE EXPENSIVE:

Chemistry/Physics/Math simulations: (useful for visualizing how equations explain real world phenomena) <https://phet.colorado.edu>

<https://openstax.org/subjects/science>

#### Anatomy and Physiology:

<http://oli.stanford.edu/anatomy-and-physiology/>  
<https://www.khanacademy.org/.../.../human-anatomy-and-physiology>  
<https://opentextbc.ca/.../1-1-overview-of-anatomy-and-physio.../>  
<https://www.visiblebody.com/anatomy-.../anatomy-and-physiology>  
<https://openstax.org/details/books/anatomy-and-physiology>

#### Astronomy:

<https://www.teachastronomy.com/textbook/>  
<http://www.opencourse.info/astronomy/introduction/>  
<http://www.planetary.org/.../full-astronomy-course-online.html>  
<https://www.youtube.com/watch?v=0rHUDWjR5gq>  
<https://www.space.com/>  
<http://astronomy.swin.edu.au/cosmos/>  
<http://www.astronomy.com/videos/astronomy-101>  
<https://www.wvu.edu/skywise/astronomy101.html>  
Astronomy books: <http://physicsdatabase.com/free-astronomy-books/>  
<http://www.as.utexas.edu/astron.../education/.../scalo/301.html...>  
<https://science.nrao.edu/opportunities/courses/era>  
<https://ocw.mit.edu/.../8-282j-introduction-to-astronomy-spr.../>  
<https://pages.astronomy.ua.edu/keel/techniques/>  
<http://www.astronomy.ohio-state.edu/~pogge/Ast161/>  
[http://homepage.physics.uiowa.edu/~spangl.../.../modern1\\_10.html](http://homepage.physics.uiowa.edu/~spangl.../.../modern1_10.html)  
<https://www.astronomynotes.com/#details>

#### Biology:

<https://www.learner.org/courses/biology/textbook/index.html>  
<http://www2.estrellamountain.edu/.../fa.../biobk/biobooktoc.html>

<https://www.biologycorner.com/> (Also has Anatomy and Physiology/Evolution/Genetics)

<https://alison.com/tag/biology>

<http://oli.stanford.edu/modern-biology/>

<http://oli.stanford.edu/introduction-to-biology/>

<https://bio.libretexts.org/>

<http://www.actionbioscience.org/>

Biochemistry:

<https://www.futurelearn.com/courses/biochemistry>

<https://online-learning.harvard.edu/.../principles-biochemist...>

GMOs and Biotech: <https://gmoanswers.com/>

<https://www.biofortified.org/> for all things biotechnology, food, and agriculture.

<https://geneticliteracyproject.org>

Climate Science:

<http://www.realclimate.org>

<http://library.open.oregonstate.edu/climatechange/>

<https://www.climatecommunication.org/climate/introduction/>

<http://climatechange.umaine.edu/.../publ.../intro-climate-change>

<https://www.ametsoc.org/.../clima.../course-components/textbook/>

Chemistry:

<http://www.chem1.com/acad/webtext/virtualtextbook.html>

<https://www.acs.org/.../resources/undergraduate/chemistry.html>

[http://preparatorychemistry.com/Bishop\\_Chemistry\\_First.htm](http://preparatorychemistry.com/Bishop_Chemistry_First.htm)

<https://www2.chemistry.msu.edu/.../reus.../virtxtjml/intro1.htm>

Interactive Periodic Table: <https://www.ptable.com/>

<http://oli.stanford.edu/introduction-to-chemistry/>

<https://chem.libretexts.org/>

Chemistry Equations and Formulas:

[https://en.wikibooks.org/.../General\\_Chemist.../Useful\\_Equations](https://en.wikibooks.org/.../General_Chemist.../Useful_Equations)

<http://mhhe.com/physsci/chemistry/equations.pdf>

<https://byjus.com/chemistry-formulas>

<http://www.elementalmatter.info/chemical-formula-and-equati...>

[http://www.web-formulas.com/Formula.../Chemistry\\_Formulas.aspx](http://www.web-formulas.com/Formula.../Chemistry_Formulas.aspx)

<https://getcalc.com/chemistry-formula.htm>

Organic chemistry:

<https://www.khanacademy.org/science/organic-chemistry>

<https://saylordotorg.github.io/.../s07-06-introduction-to-org...>

<http://www.siu.edu/~tpatric/Ch%2001%20Intro%20H%20T%20I.pdf>

[https://chem.libretexts.org/.../Chapter\\_01%3A\\_Chapter\\_1%3A\\_In...](https://chem.libretexts.org/.../Chapter_01%3A_Chapter_1%3A_In...)

<https://opentextbc.ca/.../introduction-to-organic-chemistry-2/>



<http://www.a-levelchemistry.co.uk/15-introduction-to-organi...>  
<https://ocw.mit.edu/.../organic-materials/27-introduction-to.../>

#### Evolution:

<https://tinyurl.com/ybgfwdpn>  
[http://www.kokkonuts.org/.../jennions\\_kokko\\_2014\\_The\\_Princeto...](http://www.kokkonuts.org/.../jennions_kokko_2014_The_Princeto...)  
<http://humanorigins.si.edu/edu.../introduction-human-evolution>  
[https://www.pbslearningmedia.org/.../introduction-to-evolut.../...](https://www.pbslearningmedia.org/.../introduction-to-evolut.../)

#### Forensic Science:

<http://www.exploreforensics.co.uk/>  
<http://www.forensicssciencesimplified.org/>  
<http://www.weareforensic.co.uk/>  
<http://www.forensicpathologyonline.com/>  
<https://thesebonesofmine.wordpress.com/>  
<http://www.forensicbasics.org/>  
<http://projects.nfstc.org/csieffect/>  
<http://www.forensicmed.co.uk/>  
<http://www.crime-scene-investigator.net/>

#### Microbiology:

<http://www.microbiologybook.org>  
[http://www.textbookofbacteriology.net/kt\\_toc.html](http://www.textbookofbacteriology.net/kt_toc.html)  
<https://courses.lumenlearning.com/.../introduction-to-microb.../>  
[https://bio.libretexts.org/.../1.1%3A\\_Introduction\\_to\\_Microbi...](https://bio.libretexts.org/.../1.1%3A_Introduction_to_Microbi...)  
<http://www.austincc.edu/rohde/noteref.htm>

#### Probability and Statistics:

<http://oli.stanford.edu/probability-statistics/>  
<http://oli.stanford.edu/statistical-reasoning/>  
<https://stats.libretexts.org/>

#### Physics:

<http://physicsdatabase.com/a-list-of-free-chemistry-books/>  
<https://physics.info/>  
<http://www.lightandmatter.com/lm/>  
<https://www.flippingphysics.com>  
<http://www.physicsclassroom.com>  
<https://ww2.odu.edu/~ago.../teaching/notes231/Notes2016v15.pdf>  
<http://physics.gantep.edu.tr/ep105/lecture-notes.php>  
<https://ocw.mit.edu/.../8-01l-physics-i-classi.../lecture-notes/>  
The Feynman Lectures on Physics, Volume  
I: [http://www.feynmanlectures.caltech.edu/l\\_toc.html](http://www.feynmanlectures.caltech.edu/l_toc.html)  
<https://www.khanacademy.org/science/physics>  
<https://www.introduction-to-physics.com/>  
<https://phys.libretexts.org/>

Physics Equations and Formulas:

<https://physics.info/equations/>

<https://www.mcat-prep.com/mcat-physics-equations-sheet/#>

<https://ww2.odu.edu/.../t.../notes231/Master%20Equations%20I.pdf>

<http://www.easternct.edu/.../fil.../2013/12/Physics-Formulas.pdf>

<https://byjus.com/physics-formulas>

<http://www.sciencebooksonline.info>

<http://open.umn.edu/opentextbooks/>

[https://www.nature.com/nature\\_educati.../interactive\\_textbooks](https://www.nature.com/nature_educati.../interactive_textbooks)

National Academy Press has free full reports on everything from Climate Change, Evolution, Meteorology, Biotechnology - you name it, they have it: <https://www.nap.edu/topic/>

#### SCIENTIFIC ARTICLES & JOURNALS

ArXiv: <https://arxiv.org/>

Directory of Open Access Journals: <https://doaj.org/>

Elsevier Open Access: <https://www.elsevier.com/.../open-science/open-access/open-ac...>

Google Scholar: <https://scholar.google.com.au>

Open Access Library: <http://www.oalib.com/>

Oxford Open: [https://academic.oup.com/journals/pages/open\\_access](https://academic.oup.com/journals/pages/open_access)

PLOS: <https://www.plos.org/>

Scitable: <https://www.nature.com/scitable>

Springer Open: <https://www.springeropen.com/>

Wiley Open Access: <http://www.wileyopenaccess.com/view/index.html>

ResearchGate: <https://www.researchgate.net>

SciHub: <https://sci-hub.tw/> (this moves around a lot)

Google Chrome add-on to download free versions of journal articles:

unpaywall: <http://unpaywall.org/>

#### SEARCH ENGINES:

AGRICOLA: Agricultural Online Access <https://agricola.nal.usda.gov/>

AGRIS (International

System for Agricultural Science and Technology)

<http://agris.fao.org/agris-search/index.do>

Anthropological Index

Online <https://aio.therai.org.uk/>

arXiv mathematics, physics, astronomy, computer

science, quantitative biology, statistics, and quantitative finance() arXiv.org

Astrophysics Data System <http://www.adsabs.harvard.edu/>

Bioline International (<http://www.bioline.org.br/>)

BioOne (<http://www.bioone.org/>)

ChemSpider: [www.chemspider.com](http://www.chemspider.com)



CiteSeerx (<http://citeseerx.ist.psu.edu>)  
Cochrane Library <http://www.cochranelibrary.com/>  
Directory of Open Access Journals (<http://www.doaj.org/>)  
GetCITED (<http://www.getcited.org/>)  
Google Scholar [scholar.google.com](http://scholar.google.com)  
JSTOR [www.jstor.org](http://www.jstor.org)  
MedlinePlus <https://medlineplus.gov/>  
National Science Digital Library <https://nsdl.oercommons.org/>  
New Journal of Physics (<http://iopscience.iop.org/1367-2630/>):  
PLOS ONE (<http://www.plosone.org/>)  
PubChem <https://pubchem.ncbi.nlm.nih.gov>  
PubMed [www.ncbi.nlm.nih.gov/pubmed/](http://www.ncbi.nlm.nih.gov/pubmed/)  
PubPsych <https://www.pubpsych.eu>  
RXList: <https://www.rxlist.com/script/main/hp.asp>  
Science and Technology of Advanced Materials (<http://iopscience.iop.org/1468-6996/>)  
Science.gov <https://www.science.gov>  
ScienceDirect (<http://www.sciencedirect.com/>)  
ScienceOpen <https://www.scienceopen.com>  
Springer Science [www.springer.com/gp/](http://www.springer.com/gp/)  
WorldWideScience.org <https://worldwidescience.org>

#### KID'S SCIENCE:

Experiments:

<https://thesciencemomblog.com/>  
<http://www.sciencekids.co.nz>  
<http://www.kidspot.com.au/things-to-do/.../science-experiments>  
<http://easyscienceforkids.com>  
<https://www.education.com/activity/science/>  
<http://www.scienceforkidsclub.com>  
<http://www.ducksters.com/science/>  
<http://www.biology4kids.com>  
<http://pbskids.org/games/science/>  
<https://www.kcedventures.com/.../kids-books-and-websites-abou...>  
<http://www.kidsites.com/sites-edu/science.htm>  
<https://www.thespruce.com/top-science-websites-for-kids-125...>  
<https://www.reallygoodstuff.com/.../11-free-science-websit.../2/>  
[http://www.bbc.co.uk/schoo.../websites/4\\_11/site/science.shtml](http://www.bbc.co.uk/schoo.../websites/4_11/site/science.shtml)  
<http://www.math-exercises-for-kids.com>  
<https://www.mathsisfun.com>

#### SCIENCE NEWS:

<https://www.sciencenews.org>  
<https://student.societyforscience.org>  
<https://www.sciencenewsforstudents.org>

## SCIENCE VS PSEUDOSCIENCE, and CRITICAL THINKING

Sense of Science: <http://senseaboutscience.org/activities/...>  
<https://violentmetaphors.com/.../whats-the-difference-between.../>  
<https://www.scientificamerican.com/.../the-difference-between.../>  
Aspiring Thinkers Guide to Critical Thinking  
: [http://www.criticalthinking.org/.../SAM\\_Aspiring\\_Thinkers\\_Gui...](http://www.criticalthinking.org/.../SAM_Aspiring_Thinkers_Gui...)  
The Miniature Guide to The Foundation for Critical Thinking  
: [https://www.plymouth.ac.uk/.../p.../1/1710/Critical\\_Thinking.pdf](https://www.plymouth.ac.uk/.../p.../1/1710/Critical_Thinking.pdf)  
Your Deceptive Mind: A Scientific Guide to Critical Thinking Skills  
: [https://guidebookstgc.snagfilms.com/9344\\_Deceptive\\_Mind.pdf](https://guidebookstgc.snagfilms.com/9344_Deceptive_Mind.pdf)  
Quackwatch: <https://www.quackwatch.org/>

How to understand arguments:

<http://pages.intnet.mu/.../Understanding%20Arguments%20th%20...>  
<https://www.brainpickings.org/.../baloney-detection-kit-carl.../>

More on logical fallacies and bias and the psychology of conspiracy theories

[https://scholar.harvard.edu/.../d.../files/cognitive\\_biases.pdf...](https://scholar.harvard.edu/.../d.../files/cognitive_biases.pdf...)  
<https://bookofbadarguments.com/AIBOBA-white.pdf>  
[https://umshare.miami.edu/.../e.../Society/Logical\\_Fallacies.pdf](https://umshare.miami.edu/.../e.../Society/Logical_Fallacies.pdf)  
[http://amyopp.com/.../uploads/2013/07/Psychology\\_of\\_Bias\\_May\\_...](http://amyopp.com/.../uploads/2013/07/Psychology_of_Bias_May_...)  
<https://www.vox.com/.../conspiracy-theories-psychologist-expl...>  
<https://www.psychologytoday.com/.../what-makes-conspiracy-the...>  
<http://sciencenordic.com/secrets-and-lies-psychology-conspi...>  
<https://www.scientificamerican.com/.../why-do-some-people-be.../>  
<https://www.livescience.com/53494-how-to-tell-if-conspiracy...>  
<http://journals.plos.org/plosone/article...>

Psychology resources:

[http://psychology.cypa.us/.../26300867/psychology\\_textbook.pdf](http://psychology.cypa.us/.../26300867/psychology_textbook.pdf)  
<http://www.cee.uma.pt/.../Psychology%20th%20-%20Gleitman,%20...>

Critical thinking and pseudoscience detection:

Scientific Method: A Beginner's

Guide: <http://course.sdu.edu.cn/.../eWebEditor/uploadfile/2014030616...>  
<http://www.inf.fu-berlin.de/lehre/pmo/eng/Sagan-Baloney.pdf>  
[http://lqhttp.48653.nexcesscdn.net/.../9780826194190\\_chapter....](http://lqhttp.48653.nexcesscdn.net/.../9780826194190_chapter....)  
[https://www.skepticalscience.com/docs/Debunking\\_Handbook.pdf](https://www.skepticalscience.com/docs/Debunking_Handbook.pdf)  
[http://www.courseiran.com/.../1470558987-Critical\\_thinking.pdf](http://www.courseiran.com/.../1470558987-Critical_thinking.pdf)  
<https://medium.com/.../mental-models-i-find-repeatedly-useful...>

## ONLINE FACT CHECKING

<http://www.snopes.com/>  
<http://www.factcheck.org/>  
<http://www.politifact.com/>

TruthOrFiction.com

<http://www.hoax-slayer.com/>  
<https://mediabiasfactcheck.com>

POLITICAL RESOURCES (Information on candidate policies)

<https://votesmart.org/> (US)  
<https://theyvoteforyou.org.au> (Australia)

DOCUMENTARIES/TV SHOWS: (These you may need to pay for)

Curiosity Stream: <https://curiositystream.com/> (\$2.99USD per month)

Everything narrated by David Attenborough

Everything narrated by Neil deGrasse Tyson

Everything narrated by Brian Greene

Everything narrated by Professor Brian Cox

Everything narrated by Lawrence M. Krauss

Everything Ben Goldacre

Cosmos: A Space-Time Odyssey

Bill Nye Saves the World (Netflix)

Dr Karl Kruszelnicki (<http://drkarl.com>)

The science section here: <https://topdocumentaryfilms.com/category/science-technology/>...

VACCINES and HERD IMMUNITY:

All in one vaccination resource:

<https://www.historyofvaccines.org/>

Vaccine studies (not complete): <https://drive.google.com/open...>

Studies on the economic burden of disease: <https://drive.google.com/open...>

<https://www.historyofvaccines.org/>

<http://www.chop.edu/centers-programs/vaccine-education-center>

Links debunking incorrect

claims: <http://www.redwineandapplesauce.com/vaccine-articles-off-s.../>

<http://immunise.health.gov.au/.../pub.../Content/resources-menu...>

<https://www.cdc.gov/vaccines/parents/resources/index.html>

<https://www.canada.ca/.../immunization-vaccine-awareness-mate...>

<https://www.gov.uk/government/collections/immunisation>

Extensive List of Debunk Pseudoscience Studies in relation to vaccines: <http://lizditz.typepad.com/.../-those-lists-of-papers-that-cl...>

<https://www.historyofvaccines.org/content/herd-immunity-0>

<https://theconversation.com/explainer-what-is-herd-immunity...>

Herd Immunity Guide: <https://drive.google.com/open...>

From Bozeman Science: <https://www.youtube.com/watch?v=kLUzwT9tWxY>

From Healthcare Triage: [https://www.youtube.com/watch?v=ZuiHFg\\_nfnE](https://www.youtube.com/watch?v=ZuiHFg_nfnE)

SkepticalRaptor: <http://www.skepticalraptor.com/skepticalraptorblog.php/>