

Multimedia Supplements, Links, Teaching & Activity Resources

1. General

Brain factoids & Neuromyths Handouts:

http://www.sfn.org/skins/main/pdf/neuromyth_busters/neuromyth_busters.pdf &
http://brainu.org/files/bu_docs/brain_myths.pdf

Development Overview Interactive, Video:

<http://www.nytimes.com/interactive/2008/09/15/health/20080915-brain-development.html>
<http://www.youtube.com/watch?v=GPMP68QP698>
<http://changingbrains.org/>

Cognitive Testing

<http://cognitivefun.net/>

Animals in Research from SFN

<http://www.brainfacts.org/about-neuroscience/animals-in-research>

Blogs

<http://brainposts.blogspot.com/>
<http://neurophilosophy.wordpress.com/>
<http://blogs.discovermagazine.com/neuroskeptic/>
<http://neurocritic.blogspot.com/>
<http://blog.ketyov.com/>
<http://mindhacks.com/>

2. Current Events

Young Scientist & Applying the concept of Neural Networks

http://www.huffingtonpost.com/2012/07/25/brittany-wenger-google-science-fair-breast-cancer_n_1703012.html

Nova Science - A memorable Snail:

<http://www.youtube.com/watch?v=yLa-cXg8BwM>

Lobster brains & magnetic fields:

school.discoveryeducation.com/curriculumcenter/magnetism/peakinterest.html

Dog fMRI: What is your dog thinking?

<http://www.sciencedaily.com/releases/2012/05/120504110504.htm>

A Modern Phineas Gage: US Teen survives spear through Brain

<http://www.bbc.co.uk/news/world-us-canada-18509408>

Girl with half a Brain

<http://blog.ketyov.com/2011/03/why-we-dont-need-brain.html?m=1>

Rapping in an fMRI machine:

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http://www.ted.com/talks/charles_limb_your_brain_on_improv.html

3. **Neurobiology**

Comparative Brain Anatomy:

<http://serendip.brynmawr.edu/bb/kinser/Compare1.html>

Aplysia (sea slug) & Simple networks:

<http://www.sumanasinc.com/webcontent/animations/content/sensitization.html>

Typical Cell to the Neuron:

http://www.cellsalive.com/cells/cell_model.htm

Interactive Neuron: http://www.childrenshospital.org/research/_neuron/index.html

Interneurons: http://www.hhmi.org/biointeractive/neuroscience/Animal_Locomotion/08.html (Reintroduce later for disorders/review)

4. **Electrical Activity**

<http://www.middleschoolscience.com/physics.htm>

<http://www.neurosky.com/AboutUs/BrainwaveTechnology.aspx>

Prototype This” TV Show - Biofeedback car (EEG, EKG, GSR intro)

Electroscope:

<http://www.youtube.com/watch?v=2PmWIPjV6n0>

Simple Motor Experiment:

<http://www.exploratorium.edu/afterschool/activities/index.php?activity=138&program=597>

Penfield Brain Mapping & Modern Surgery

<http://www.pbs.org/wgbh/aso/tryit/brain/probe.html>

5. **Sensation & Perception, Emotions**

Sensation & Perception - Vision

<http://sites.sinauer.com/wolfe3e/chap2/vissystemF.htm>

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Neuroscience for Kids

<http://faculty.washington.edu/chudler/chvision.html>

The Impossible Triangle & Box

www.sandlotscience.com/Projects/images/triplan1.pdf

<http://blog.makezine.com/2008/08/16/how-to-simple-3d-illusion/>

Stroop

<http://faculty.washington.edu/chudler/words.html#seffect>

Fun Video: i-LLUMINATE Dance Group @ Google science fair - also for **Current Events**

<http://youtu.be/CIdz9-QwrIA?t=33>

Fake or Real Smiles

<http://www.bbc.co.uk/science/humanbody/mind/surveys/smiles/index.shtml>

Nonverbal Emotion / Faces, gestures, posture (DANVA)

<http://www.psychology.emory.edu/clinical/interpersonal/danva.htm>

Dyslexia in depth

<http://youtu.be/SaQfuxODpog>

6. **Drugs & Behavior**

Activities Guide: <http://teens.drugabuse.gov/mom/teachguide/MOMTeacherGuide.pdf>

<http://brainu.org/dendritic-spines-lab>

<http://learn.genetics.utah.edu/content/addiction/reward/neurontalk.html>

<http://learn.genetics.utah.edu/content/addiction/drugs/>

<http://laughingsquid.com/half-before-and-after-composite-portraits-of-drug-abuse/>

Simple Poster Handout: http://www.drugabuse.gov/sites/default/files/postermod2_45.pdf

NT Cartoons: <http://necessarysufficient.net/standard/cgi-bin/shop.pl/sciencemath>

<http://learn.genetics.utah.edu/content/addiction/drugs/index.html>

7. **Technology & the Brain: Robots, Nano-tech, Future Bodies**

<http://www.discoveryeducation.com/teachers/free-lesson-plans/future-body.cfm>

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<http://school.discoveryeducation.com/lessonplans/programs/robbie/index.htm>

<http://neurosciencenews.com/neuroscience-topics/robotics-2/>

http://er.jsc.nasa.gov/seh/The_Brain_in_Space.pdf