

Animation & Study Links

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ORGANIZATION

Planes of Section <http://www.madsci.org/~lynn/VH/planes.html>

Homeostasis & Negative Feedback <http://health.howstuffworks.com/adam-200092.htm>

CHEMISTRY OF LIFE

Carbohydrates http://www.wisc-online.com/objects/index_tj.asp?objid=AP13104

Lipids http://www.wisc-online.com/objects/index_tj.asp?objid=AP13204

Proteins http://www.wisc-online.com/objects/index_tj.asp?objid=AP13304

Enzymes http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013191&showSelfStudyTree=true

CELLS

Fluid mosaic

<http://www.stolaf.edu/people/giannini/flashanimat/lipids/membrane%20fluidity.swf>

Organelles http://www.wisc-online.com/objects/index_tj.asp?objid=AP11604

<http://learn.genetics.utah.edu/units/basics/cell/>

Rough ER – Golgi (Endomembrane System)

<http://www.stolaf.edu/people/giannini/flashanimat/cellstructures/endomembrane%20protein%20synthesis.swf>

Lysosomes http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013192&showSelfStudyTree=true

Membrane transport

<http://programs.northlandcollege.edu/biology/Biology1111/animations/transport1.html>

Diffusion http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013194&showSelfStudyTree=true

Facilitated Diffusion http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013195&showSelfStudyTree=true

Osmosis1 <http://www.stolaf.edu/people/giannini/flashanimat/transport/osmosis.swf>

Osmosis2 http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013196&showSelfStudyTree=true

Endocytosis-Exocytosis http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013193&showSelfStudyTree=true

Cell cycle http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013380&showSelfStudyTree=true

Mitosis http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013381&showSelfStudyTree=true

Mitosis & Cytokinesis http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013382&showSelfStudyTree=true

Transcription http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013433&showSelfStudyTree=true

Translation http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013434&showSelfStudyTree=true

INTEGUMENTARY SYSTEM

Skin	http://www.wisc-online.com/objects/index_tj.asp?objid=AP12204
Sweat glands	http://health.howstuffworks.com/adam-200101.htm
Sun & Skin	http://health.howstuffworks.com/adam-200100.htm

SKELETAL SYSTEM

Skeletal formation	http://health.howstuffworks.com/adam-200125.htm
Skeletal Sys Overview	http://health.howstuffworks.com/adam-200029.htm
Skull Tutorial	http://www.gwc.maricopa.edu/class/bio201/skull/antskul.htm
Intervertebral discs	http://www.nucleusinc.com/animation11.php
Dislocation of shoulder	http://health.howstuffworks.com/adam-200069.htm
Osteoarthritis	http://health.howstuffworks.com/adam-200026.htm
Osteoporosis	http://health.howstuffworks.com/adam-200027.htm

MUSCULAR SYSTEM

Muscles introduction	http://health.howstuffworks.com/adam-200005.htm
Neuromuscular junction	http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013309&showSelfStudyTree=true
Action potentials & muscle contraction	http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013307&showSelfStudyTree=true
Sarcomere shortening	http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013311&showSelfStudyTree=true
Skeletal muscle overview	http://health.howstuffworks.com/adam-200006.htm
Skeletal muscle actions	http://www.med.umich.edu/lrc/Hypermuscle/Hyper.html
Skeletal muscle origins/insertions/actions	http://www.getbodysmart.com/ap/muscularsystem/menu/menu.html

NERVOUS SYSTEM

Nerve impulse	http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013334&showSelfStudyTree=true
Action potential propagation	http://www.blackwellpublishing.com/matthews/actionp.html
Chemical synapse1	http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013333&showSelfStudyTree=true
Chemical synapse2	http://www.blackwellpublishing.com/matthews/nmj.html
Brain Overview	http://health.howstuffworks.com/adam-200008.htm
Sheep brain dissection	http://www.exploratorium.edu/memory/braindissection/index.html
Spinal reflex	http://health.howstuffworks.com/adam-200012.htm
Patellar (knee-jerk) reflex	http://www.brainviews.com/abFiles/AniPatellar.htm
Patellar reflex	http://www.youtube.com/watch?v=qpw31bvoLpg
Patellar reflex (funny)	http://www.youtube.com/watch?v=xxmC1GYkJLI
Babinski reflex	http://www.youtube.com/watch?v=kOq5Np0eZ6A
Achilles reflex	http://www.youtube.com/watch?v=BEQ6BbLLucA
Romberg test	http://www.youtube.com/watch?v=4hOSkmDYAR4
Concussion	http://health.howstuffworks.com/adam-200049.htm

SPECIAL SENSES

- Eye anatomy with movie <http://www.macula.org/anatomy/index.html>
Tunics of the eye http://www.wisc-online.com/objects/index_tj.asp?objid=AP14304
Cow eye dissection
http://www.exploratorium.edu/learning_studio/cow_eye/index.html
Smell http://www.bbc.co.uk/science/humanbody/body/factfiles/smell/smell_ani_f5.swf
Taste http://www.bbc.co.uk/science/humanbody/body/factfiles/taste/taste_ani_f5.swf
Ear http://www.wisc-online.com/objects/index_tj.asp?objid=AP1502
Soundwaves and hearing
http://highered.mcgrawhill.com/sites/0072841869/student_view0/chapter13/animations_english_.html

ENDOCRINE SYSTEM

- Hormone action http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1019082&showSelfStudyTree=true
Steroid hormones
http://highered.mcgrawhill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013350&showSelfStudyTree=true
Diabetes http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013352&showSelfStudyTree=true

BLOOD

- Clotting <http://health.howstuffworks.com/adam-200077.htm>
Blood flow through heart <http://health.howstuffworks.com/adam-200083.htm>
Cardiac conduction system <http://health.howstuffworks.com/adam-200080.htm>
Blood pressure <http://health.howstuffworks.com/adam-200079.htm>
Capillary Exchange <http://health.howstuffworks.com/adam-200084.htm>
Hemostasis
http://www.mhhe.com/biosci/esp/2002_general/Esp/folder_structure/tr/m1/s7/trm1s7_3.htm
Blood typing game
http://nobelprize.org/educational_games/medicine/landsteiner/index.html

CARDIOVASCULAR SYSTEM

- Heart anatomy interaction http://www.nucleusinc.com/medical-animations.php?page_no=1&show_anim=heart.swf
Blood flow through heart <http://medmovie.com/mmdatabase/flash/0016a.swf>
Heart contraction and blood flow (slow motion)
http://www.nhlbi.nih.gov/health/dci/Diseases/hhw/hhw_pumping.html
Conduction System <http://medmovie.com/mmdatabase/flash/0007a.swf>
Sheep Heart Dissection http://www.zerobio.com/videos/sheep_heart_anatomy.html
Blood pressure measurement
http://www.victoriacollege.edu/dept/bio/Animations/iworx/blood_pressure.html
Strokes <http://health.howstuffworks.com/adam-200071.htm>
Atherosclerosis <http://health.howstuffworks.com/adam-200034.htm>
Heart attack http://medmovie.com/mmdatabase/flash/0072a_B.swf
Angioplasty & stent <http://health.howstuffworks.com/adam-200140.htm>

Coronary bypass <http://health.howstuffworks.com/adam-200138.htm>
Varicose veins <http://www.medindia.net/animation/Varicosel.swf>

LYMPHATIC - IMMUNITY

Phagocytosis <http://www.stolaf.edu/people/giannini/flashanimat/cellstructures/phagocytosis.swf>
Specific Immunity <http://science.nhmccd.edu/biol/inflam.html>
Humoral Immunity <http://bcs.whfreeman.com/thelifewire/content/chp18/1802004.html>
Vaccination <http://resources.schoolscience.co.uk/ABPI/immune/immAnim3.htm>

RESPIRATORY SYSTEM

Respiratory System tour http://lungdiseases.about.com/od/generalinformation1/ss/resp_sys_tour.htm
Respiratory tract cilia <http://www.bioscope.org/taste/cd1/a0255a.htm>
Respiration Events http://www.wisc-online.com/objects/index_tj.asp?objid=AP15104
Breathing http://pennhealth.com/health_info/animationplayer/breathing.html
Coughing http://pennhealth.com/health_info/animationplayer/coughing.html
Asthma <http://www.whatsasthma.org/flash/hasthmav.html>
Snoring http://pennhealth.com/health_info/animationplayer/snoring.html

DIGESTIVE SYSTEM

Digestion overview <http://health.howstuffworks.com/adam-200086.htm>
Swallowing <http://health.howstuffworks.com/adam-200089.htm>
Peristalsis <http://www.lionden.com/peristalsis.htm>
Heartburn <http://health.howstuffworks.com/adam-200087.htm>
Digestive practice Q http://www.zerobio.com/target_practice_quiz/target_practice_quiz_digestion.htm

URINARY SYSTEM

Urinary sys overview <http://health.howstuffworks.com/adam-200032.htm>
Kid's urinary system <http://www.sickkids.ca/childphysiology/cwp/Urinary/UrinaryIntro.htm>
Kidney structures & function <http://www.sumanasinc.com/webcontent/anisamples/majorsbiology/kidney.html>
Fetal pig urinary system <http://www.whitman.edu/biology/vpd/excretory.html>
Micturition reflex http://msjensen.education.umn.edu/1135/Links/Animations/Flash/0041-swf_micturition_re.swf
Kidney stones <http://health.howstuffworks.com/adam-200031.htm>
Urinary practice Q http://www.zerobio.com/target_practice_quiz/target_practice_quiz_kidney.htm

REPRODUCTIVE SYSTEMS

Ovarian & Uterine cycles <http://www.sumanasinc.com/webcontent/anisamples/majorsbiology/ovarianuterine.html>
Meiosis & mitosis comparison http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013383&showSelfStudyTree=true
Egg production & hormones1 <http://health.howstuffworks.com/adam-200017.htm>
Egg production & hormones2 <http://health.howstuffworks.com/adam-200115.htm>
Maturation of follicle & oocyte

http://highered.mcgraw-hill.com/classware/ala.do?alaid=ala_1013361
Maturation of follicle & oocyte http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013361&showSelfStudyTree=true
Sperm pathway <http://health.howstuffworks.com/adam-200126.htm>
Spermatogenesis http://highered.mcgraw-hill.com/classware/ala.do?isbn=0072986867&alaid=ala_1013362&showSelfStudyTree=true
Fetal pig reprod sys <http://www.whitman.edu/biology/vpd/reproductive.html>
Enlarged prostate <http://health.howstuffworks.com/adam-200003.htm>
Vasectomy <http://health.howstuffworks.com/adam-200076.htm>

CONCEPTION TO BIRTH

Conception to Birth http://www.anatomicaltravel.com/CB_site/Conception_to_birth3.htm
Conception <http://health.howstuffworks.com/adam-200112.htm>
Identical & fraternal twins <http://health.howstuffworks.com/adam-200116.htm>
Zygote to blastocyst <http://health.howstuffworks.com/adam-200110.htm>
Pregnancy <http://health.howstuffworks.com/adam-200018.htm>
Embryonic & Fetal Development <http://health.howstuffworks.com/adam-200129.htm>
Ultrasound imaging 1 <http://health.howstuffworks.com/adam-200128.htm>
Ultrasound imaging 2 <http://www.howstuffworks.com/adam-200131.htm>
Sexual Differentiation <http://health.howstuffworks.com/adam-200124.htm>
Face formation <http://health.howstuffworks.com/adam-200119.htm>
Placenta <http://health.howstuffworks.com/adam-200122.htm>
Amniotic fluid <http://www.howstuffworks.com/adam-200127.htm>
Rupturing membranes <http://health.howstuffworks.com/adam-200123.htm>
Cervical dilation <http://health.howstuffworks.com/adam-200130.htm>
Vaginal delivery <http://www.howstuffworks.com/adam-200113.htm>
Cesarean delivery <http://health.howstuffworks.com/adam-200111.htm>
Placenta delivery <http://health.howstuffworks.com/adam-200121.htm>
Cloning <http://www.luc.edu/faculty/wwasser/dev/moclon.htm>

NUTRITION

MyPyramid.gov <http://mypyramid.gov/>
Understanding food labels <http://www.cfsan.fda.gov/~dms/foodlab.html>
Fitsense calorie calculator http://www.fitsense.co.uk/fit_article.php?id=1
Grocery StoreWars <http://www.storewars.org/flash/index.html>

FETAL PIG DISSECTION ~ overview

Fetal pig – initial cuts <http://www.youtube.com/watch?v=D0EhPMo06Kk>
Fetal pig – ventral view <http://www.youtube.com/watch?v=lWikhoXMxkI>