

Unit 4 – Evolution (Revised 2013)

(1) General Introduction – Evolution and Adaptation

http://www.wadsworthmedia.com/biology/0495119814_starr/big_picture/ch16_bp.swf

(2) Peppered Moth & Other Examples of Natural Selection

<http://www.techapps.net/interactives/pepperMoths.swf>

http://media.hhmi.org/fittest/natural_selection.html

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

(3) Artificial Selection

<http://www.pbs.org/wgbh/nova/dogs/worl-flash.html>

<http://www.pbs.org/wgbh/harvest/engineer/select.html>

(4) Inheritance of Acquired Characteristics

<http://www.tutorvista.com/content/biology/biology-iii/organic-evolution/lamarckian-and-darwinian.php>

(5) Darwin – Song

<http://www.youtube.com/watch?v=X1Vh7jCUKSo&feature=related>

(6) Vestigial Structures

http://www.cengage.com/anthropology/book_content/lewis_0495129003/basic_genetics2006/modules/1a1.swf

(7) Comparative Embryology

http://www.pbs.org/wgbh/evolution/library/04/2/quicktime/l_042_02.html

(8) Relative Dating

<http://www.sciencelearn.org.nz/Contexts/Dating-the-Past/Sci-Media/Animations-and-Interactives/Relative-rock-layers>

(9) Radioactive Dating

http://www.youtube.com/watch?v=phZeE7Att_s

(10) Adaptive Radiation

<http://www.pbs.org/wgbh/evolution/darwin/origin/index.html>

<http://www.sepa.duq.edu/finches.html>

<http://life9e.sinauer.com/life9e/pages/23/232001.html>

(11) Homologous Structures / Analogous Structures

http://www.blackwellpublishing.com/ridley/tutorials/The_evidence_for_evolution16.asp

http://evolution.berkeley.edu/evolibrary/article/similarity_ms_01

(12) Hardy Weinberg Equilibrium

<http://www.execulink.com/~ekimmel/hardyweinberg.htm>

<http://nortonbooks.com/college/biology/animations/ch17a02.htm>

<http://nortonbooks.com/college/biology/animations/ch17p01.htm>

<http://www.youtube.com/watch?v=5NdMnlt2keE>

http://www.mhhe.com/cgi-bin/netquiz_get.pl?qfooter=/usr/web/home/mhhe/biosci/genbio/animation_quizzes/animate_59fq.htm&afooter=/usr/web/home/mhhe/biosci/genbio/animation_quizzes/animate_59fa.htm&test=/usr/web/home/mhhe/biosci/genbio/animation_quizzes/animate_59q.txt&answers=/usr/web/home/mhhe/biosci/genbio/animation_quizzes/animate_59a.txt

http://www.cengage.com/biology/discipline_content/animations/sim_04.html

http://highered.mcgraw-hill.com/sites/9834092339/student_view0/chapter20/animation_mechanisms_of_evolution.html

(13) Genetic Drift

http://lcmrschooldistrict.com/roth/PowerPoint_Lectures/chapter17/videos_animations/computer_drift_v2.html

(14) Bottleneck Effect / Founder Effect

<http://biology200.gsu.edu/houghton/2107%20%2713/Figures/Chapter22/bottleneck.jpg>

<http://biology200.gsu.edu/houghton/2107%20%2713/Figures/Chapter22/founder.jpg>

(15) Gene Flow

<http://nortonbooks.com/college/biology/animations/ch17a01.htm>

(16) Stabilizing Selection Directional Selection, Disruptive Selection

http://wps.pearsoncustom.com/wps/media/objects/3014/3087289/Web_Tutorials/17_A02.swf

http://csep10.phys.utk.edu/lightcone/Klug8E/Ch22/22_1_6a.swf

(17) Speciation – Isolating Mechanisms

http://www.pbs.org/wgbh/evolution/library/05/2/l_052_01.html

https://smartsite.ucdavis.edu/access/content/user/00002950/bis10v/media/ch13/isolating_mechanisms.html

(18) Gradualism vs Punctuated Equilibrium

http://glencoe.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::550::400::/sites/dl/free/0078802849/383939/gradualism_Punctuated_Equilibrium.swf::
http://academygenbioii.pbworks.com/w/page/65520728/Section%2025_3%3A%20The%20Place%20of%20Speciation

(19) Coevolution

http://www.pbs.org/wgbh/evolution/library/01/3/quicktime/l_013_07_56.html

(20) Chemical Evolution Miller / Urey Experiment

<http://faculty.massasoit.mass.edu/whanna/122/page4/page29/page61/page61.html>
http://highered.mcgraw-hill.com/sites/9834092339/student_view0/chapter26/animation_miller-urey_experiment.html

(21) Endosymbiosis

http://highered.mcgraw-hill.com/sites/9834092339/student_view0/chapter4/animation_endosymbiosis.html
<http://bcs.whfreeman.com/thelifewire/content/chp28/2802s.swf>

(22) Gaia Theory

<http://library.thinkquest.org/C003763/flash/gaia1.htm>