

Biology I Unit 6 Study Guide

BioIU6SG (Evolution)

Web resources: www.tufts.edu/as/wright_center/cosmic_evolution
<http://evolution.berkeley.edu/evolibrary/home.php>
<http://www.agiweb.org/news/evolution/foreword.html>

Study Objectives:

1. Cite evidence that species change over time. 15.2
2. Explain the many conditions (Hardy-Weinberg Principle) that cause evolutionary change. 16.1
3. Describe the selective pressures acting on each population and the distribution curves those pressures create. 16.2
4. Describe the mechanisms of speciation. 16.3
5. Demonstrate your application of the Hardy-Weinberg equation to a population. Problem Set

Assignments:

- Read (from chapters 15 and 16)
- Notebook to include: **10pts**
 - ✓ Study Objectives Notes 1-5
 - ✓ Case Study: "As the Worm Turns"
 - ✓ Crossword/Speciation Article
 - ✓ Hardy-Weinberg Problem Set
 - ✓ Video: "Darwin - Evolution's Voice"
- Labs:
 - ✓ Coacervates (**exploration lab**)
 - ✓ The Same but Different **10pts**
- Vocabulary Quiz 15pts
- **Unit 6 Test 10pts**

Vocabulary: adaptation chemical evolution fitness biogenesis coacervates stromatolite adaptive radiation homologous structure vestigial structure analogous structure phylogeny evolution natural selection niche gene pool genetic equilibrium genetic drift radiometric dating microevolution macroevolution punctuated equilibrium artificial selection divergent evolution coevolution

Biology I Unit 6 Study Guide

BioIU6SG (Evolution)

Web resources: www.tufts.edu/as/wright_center/cosmic_evolution
<http://evolution.berkeley.edu/evolibrary/home.php>
<http://www.agiweb.org/news/evolution/foreword.html>

Study Objectives:

1. Cite evidence that species change over time. 15.2
2. Explain the many conditions (Hardy-Weinberg Principle) that cause evolutionary change. 16.1
3. Describe the selective pressures acting on each population and the distribution curves those pressures create. 16.2
4. Describe the mechanisms of speciation. 16.3
5. Demonstrate your application of the Hardy-Weinberg equation to a population. Problem Set

Assignments:

- Read (from chapters 15 and 16)
- Notebook to include: **10pts**
 - ✓ Study Objectives Notes 1-5
 - ✓ Case Study: "As the Worm Turns"
 - ✓ Crossword/Speciation Article
 - ✓ Hardy-Weinberg Problem Set
 - ✓ Video: "Darwin - Evolution's Voice"
- Labs:
 - ✓ Coacervates (**exploration lab**)
 - ✓ The Same but Different **10pts**
- Vocabulary Quiz 15pts
- **Unit 6 Test 10pts**

Vocabulary: adaptation chemical evolution fitness biogenesis coacervates stromatolite adaptive radiation homologous structure vestigial structure analogous structure phylogeny evolution natural selection niche gene pool genetic equilibrium genetic drift radiometric dating microevolution macroevolution punctuated equilibrium artificial selection divergent evolution coevolution