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Chapter 16

Section 2

# **Chapter 16**

## **Section 2**

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laurenflynn1 includes 7  
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The strengths of Darwin's work—evidence of evolution, a mechanism for evolution, and the recognition that variation is important—placed Darwin's ideas among the most important of our time. However, Darwin lacked a mechanism for

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inheritance.

Evolution As

**Evolutionary Theory  
- Quia**

Chapter 16: Evolution  
of Populations 16.1

Genes and Variation

16.2 Evolution as

Genetic Change 16.3

The Process of

Speciation Evolutionary

thought today is tightly  
linked to genetics.

Remember,

populations, not

individuals evolve. All

the alleles in a pop.

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added together are called the gene pool .

Evolution As Genetic Change

**Chapter 16:  
Evolution of  
Populations**

16.1 Primate

Adaptation and

Evolution Baboons

(top) and a Homo

habilis skull 429

Section 16.1 BIOLOGY:

The Dynamics of Life

SECTION FOCUS

TRANSPARENCIES Use

with Chapter 16,

Section 16.1 How are

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Evolution's  
Genetic Change

the chimpanzee hand and the baboon hand similar? How do they differ from the squirrel hand? What tasks might a chimpanzee's hand enable the animal

## **Chapter 16: Primate Evolution**

Chapter 16 Evolution of Populations 16-1

Genes and Variation

Darwin's original ideas can now be understood in genetic terms.

Beginning with

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variation, we now know that traits are controlled by genes and that many genes have at least two forms, or alleles. We also know that individuals of all species are heterozygous for many genes.

## **Chapter 16 Evolution of Populations**

### **Summary**

(2) individuals vary in tongue-length and tongue-length is a heritable trait, and (3)

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long-tongued

individuals have a

higher fitness in this

particular environment.

16.4 Evidence of

Evolution

Biogeography For

Questions #1-3,

complete each

statement by writing

the correct word or

words. 1.

**[www.livingston.org](http://www.livingston.org)**

Population Genetics.

Population Genetics is

the study of evolution

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from a genetic point of view (it is the study of microevolution)

Microevolution. —a change in the collective genetic material of a population. Population. —members of the same species that can interbreed. It is the smallest unit in which evolution occurs.

### **Chapter 16**

divergent evolution;

approximately 16

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million years. ago; the galago. Section 16-1.

#### VOCABULARY REVIEW.

1. Population genetics is the study of evolution from a genetic point of view.

2. A gene pool is the total genetic information available in a population. 3.

Allele frequency is the frequency of a certain allele. among all alleles of the same gene in a population.

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**Chapter 15 and 16**

**Study Guide**

**Answers**

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Chapter 15, Section 2:  
Evidence of Evolution.

Terms in this set (14)

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Derived Trait. New features that did not appear in the fossils of ancestors. Ancestral Trait. More common features that appear in the fossils of ancestors. Homologous Structure. Anatomically alike structures that are inherited from an ancestor.

## **Chapter 15, Section 2: Evidence of Evolution Flashcards**

...

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## Chapter 16

### Section 2

Start studying Section 16-3: The Process of Speciation. Learn vocabulary, terms, and more with flashcards, games, and other study tools.

### **Study 16 Terms | Section 16-3: The... Flashcards | Quizlet**

Section 16—2

Evolution as Genetic  
Change (pages

397-402) Key Concepts

- HOW • What is

Natural Selection on

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Chapter 16

Section 2

Single-Gene Traits 1. Is the following true

Natural lead to changes in allele 2. If a trait made an organism less likely to survive and what would ...

Biology Chapter 16

Study Guide ...

**Biology Chapter 16**

**Study Guide -**

**calhoun.k12.al.us**

1.8 mya-400,000 years ago  
195,000 years ago to present  
2.4-1.4 mya

CHAPTER 16 Section 3:

*Page 17/24*

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### Section 2

Human Ancestry For  
each statement below,  
write true or false. 11.

- Of all the hominin species that ever existed, only Homo sapiens remained 30,000 years ago. 12. Most scientists think that humans evolved in several places around the world. 13.

### **Study Guide**

#### **Primates - SCSD1**

Evolution 2. At the genetic level, the

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Evolution As

Genetic Change  
process in which  
inherited  
characteristics within  
populations change  
over time.

## **Biology Chapter 16**

### **Section 1 - quia.com**

The Chapter 16 Section

16 2 Evolution As

Genetic Change portion

really only relates to

the first small ... pdf,

epub, pdb, rtf, Chapter

16 Section 16 2

Evolution As Genetic

Change... I suggest

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Chapter 16

Section 2

you...

Evolution As

**Chapter 16 Section**

**16 2 Evolution As**

**Genetic Change PDF**

...

Chapter: Stars and Galaxies. Table of Contents. Section 2: Evolution of Stars  
Section 1: Observing the Universe  
Section 3: Galaxies and the Milky Way  
Section 4: Cosmology. • Long ago, people named patterns of stars after

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characters in stories,  
animals, or tools.

Genetic Change

## **Chapter: Stars and Galaxies**

Chapter 15. Theory of Evolution. ... Section 1

Vocabulary Pretest.

Evolution. Strata.

Natural Selection.

Adaptation. Fitness.

Layers of rock.

Darwin's theory for the mechanism for descent with modifications.

Measure of an individual's hereditary

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contribution to the next generation.

Evolution As

Genetic Change

### **Chapter 15**

Name Date Class PDF

2nd CHAPTER 15

Section 1: Darwin's

Theory of Evolution by

Natural Selection In

your textbook, read

about developing the

theory of natural

selection. For each

statement below, write

true or false. 1. Charles

Darwin served as

naturalist on the HMS

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Chapter 16

Section 3

Beagle. 2. The environments that Darwin studied exhibited little biological ...

**Name Date Class -  
SCSD1**

SECTION3 Beyond  
Darwinian Theory  
CHAPTER 16

Evolutionary Theory As  
you read this section,  
keep these questions  
in mind: • How has  
Darwin's theory been  
updated? • At what

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Section 2

scales can evolution be studied? KEY IDEAS

Evolution /  
Genetic Change  
How Has Darwin's Theory Been Updated?

Since Darwin's time, new discoveries, particularly in the field of genetics, have ...

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