

## Directed Reading 16.1

### **Vocabulary**

Evolution

Fossil

### **Key Concepts**

What concept did Charles Darwin develop that was his greatest contribution to science?

How does Darwin's work translate into today's world? Give a real life example of how this helps us understand modern phenomena.

What were the three patterns of Biodiversity that Darwin noted while on the HMS Beagle?

- 1.
- 2.
- 3.

## Directed Reading 16.2

### **Vocabulary**

Artificial Selection

### **Key Concepts**

What key hypotheses did James Hutton and Charles Lyell form?

The French naturalist Jean-Baptiste Lamarck proposed two hypotheses about how species evolved. What were they?

1.

2.

How did Thomas Malthus view the population growth of people?

How did Darwin use this view of human population growth to apply it to other organisms?

How did Darwin use artificial selection to find an explanation for change in nature?

Why was natural variation among species important to Darwin?