### **COMPARING ORGANISMS**

30.	Which of the following scientific fields provide evidence that
	organisms share common ancestors?
	<b>a.</b> physical education and comparative molecules
	<b>b.</b> geology and geography
	<b>c.</b> comparative anatomy and molecular biology
	<b>d</b> . physics and chemistry
31.	When scientists study the anatomy of organisms, they find that related
	organisms
	<b>a.</b> share all their traits.
	<b>b.</b> share many traits.
	<b>c.</b> share no traits.
	<b>d.</b> have no traits.
32.	Which of the following makes the human arm similar to a dolphin's
	flipper or a bat's wing?
	<b>a.</b> the ability to fly
	<b>b.</b> the structure of the skin
	<b>c.</b> the order of their evolution
	<b>d.</b> the structure and order of bones
33.	What does the similarity between humans, dolphins, cats, and bats
	indicate?
	<b>a.</b> that they all evolved recently
	<b>b.</b> that their ancestors lived in the same place
	-
	<b>d.</b> that they are becoming more alike over time
33.	<ul> <li>c. the order of their evolution</li> <li>d. the structure and order of bones</li> <li>What does the similarity between humans, dolphins, cats, and bats indicate?</li> <li>a. that they all evolved recently</li> <li>b. that their ancestors lived in the same place</li> <li>c. that they share a common ancestor</li> </ul>

34. Which of the following determines an organism's traits?

- **a.** its descendants
- **b.** genetic information stored in its DNA
- **c.** where it was born
- **d.** what it looks like
- 35. What does comparing DNA from two species tell scientists ?

## Skills Worksheet

# **Directed Reading B**

## Section: How Does Evolution Happen? (pp. 306-311)

1. List three things that scientists learned about Earth beginning in the 1800s.

#### **CHARLES DARWIN**

**2.** What did Darwin do in order to study plants and animals?

- **a.** He took a trip around the world.
- **b.** He studied theology.
- **c.** He formed theories.
- **d.** He became a doctor.

**3.** What did Darwin do during his travels?

- **a.** He wrote a book about his theory.
- **b.** He observed plants and animals.
- **c.** He took photos of plants and animals.
- **d.** He visited all the continents.

4. Darwin noticed that the plants and animals on the \_\_\_\_\_

were similar to, but not the same as, those in Ecuador.

5. What was one way that finches on different islands differed from each other?

6. What was the beak of each finch adapted to?

#### DARWIN'S THINKING

- **7.** What puzzled Darwin about the Galápagos finches?
  - **a.** They were so different.
  - **b.** They should not have been there.
  - **c.** They were too similar.
  - **d.** They were similar but had unique adaptations.
- **8.** A characteristic that can be passed from parent to offspring through genes is a(n)
  - **a.** species.
  - **b.** breeding.

- **c.** trait.
- **d.** adaptation.

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