

Chapter 2, section 3

Biogeography

Pages TB 54-57

BW date (Sp page 112)

- What are some reasons that animals move from one place to another?

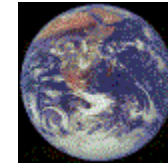
Answer to BW

- Seasonal migrations
- Overpopulation
- Too much competition in the original area
- Need for food or water

Biogeography

- The study of where organisms live.

- Bio- Life



- Geo- Earth

- Graph- Description



Reading Preview

- Read the key concepts on page 54.
- Read the key terms and try and guess what each word means without looking at the answers. (No writing.)

Get Your Spiral Set Up

- Make 5 flash cards (with drawings) from the key terms for 2-3. Study daily!

Introduction to Biography

- Read the introduction on TB page 54 and answer your notes on page 90, #1.
- (You will answer the graphic organizer on your notes when you read about the causes of dispersal. Don't forget to come back to this!)

Discover Activity- TB page 54

Spiral page 112

- Materials: beans, shallow pan, water, straw and tape
- WARNING- FOLLOW THE DIRECTIONS IN THE BOOK STEP BY STEP
- How can you move a seed using the materials above? Record your answer on sp page 52. (Answer this BEFORE you do the activity.)
- Each person in your group tries one of the ways you recorded.
- AFTER THE EXPERIMENT- Put a checkmark if it worked next to the idea you wrote down.

Continental Drift

- Read TB page 55 “Continental Drift” and answer the notes 2-4 in sp page 90.

Continental Drift (sp p 113)

- 1. What is Pangaea?
- Figure 10 shows a process that took hundreds of millions of years.
- 2. Why does Australia have so many unique organisms?
- 3. Have North and South America been connected ever since the breakup of Pangaea?

Go Online to these web sites

- [Continental Drift](#)- interactive online activity
 - Click “Start” and watch carefully.
 - Answer the 3 questions below the activity. No writing necessary.
- [Animation of Pangea](#) – read the information at the link first and then click on the map to see the continents moving.
 - Notice the time period at the bottom of the map while the animation is going on.

Means of Dispersal

- Read textbook pages 55-56.
- Complete notes #'s 5-10 in spiral pages 90-91.

Means of Dispersal sp p 114

- 1. What are some ways that organisms can be dispersed?
- 2. When might seed dispersal not be beneficial?

Review

- Read the next 5 slides as a recap of what you have learned.
- Nothing to write.

Dispersal

- o Dispersal – The movement of organisms from one place to another
- o 3 main means of dispersal.

- **Wind:**

- Seeds
- Spores
- tiny spiders
- small light organisms





Dispersal



–Water:

- Floating objects
- Coconuts
- Leaves
- Insects



–Other Living Things

- Birds: seeds
- Ducks: algae and fish eggs
- Dogs and Cats: organisms in their fur
- Humans: (all sorts of things!!)
- (Think about customs at the airport.)



Dispersal

- Native Species:
 - a species that has naturally evolved in an area.



Dispersal



- Exotic Species:
 - a species carried to a new location.
 - Consume food sources that native species would eat, leaving insufficient food.
 - Occupy safe or supportive habitat, leaving a reduced amount of habitat for natives.
 - Serve as food for native species but lack certain essential nutrients, leading to death of native offspring.
 - Consume eggs, young, and adults of native species

Dispersal

- There are limits to organisms reaching other parts of the world.

- **Physical barriers:**

- Water
 - Mountains
 - Deserts



- **Competition:**

- Organisms competing for resources with existing species.

- **Climate:**

- Organisms unable to survive and thrive due to the temperature or amount of water.

Limits to Dispersal

- Read TB pages 56-57
- Complete notes on spiral page 91, # 11-15

Limits to Dispersal

Spiral page 115

- 1. What are 3 factors limiting species dispersal?
- 2. If the seed of a tropical plant floated to Hawaii, would the species disperse successfully?
- 3. Which factors that limit dispersal also limit a population's size?

Continental Drift and Dispersal sp. p 116

- Look at figure 10 on page 55.
- 1. Where would organisms still be able to move freely from one continent to another?
- 2. What happened to India?
- 3. What do you think happened to organisms on the continents that remained separated?

Answers to spiral page 114

- 1. By wind and other living things.
- 2. When seeds are carried to an area where you do not want them to grow.

Check you answers on your spiral page 115

KEY--

- 1. Physical barriers, Climate, competition

2. Yes, it could disperse... because

- Seed overcame physical barriers
- Climate suits a tropical plant

OR

Didn't work because

existing plants can outcompete new species

3 Competition AND Physical barriers

- **NOT** weather and climate

Answers to Spiral ?'s page p 116

1. North America and Europe/Asia

- Africa and South America
- Antarctica and Australia

2. It joined Europe/Asia.

3. They evolved into unique species found nowhere else in the world.

Section Assessment 2-3 spiral page 117

- Complete the questions from textbook page 57.
You do NOT have to do the Lab Zone Activity.

1. a

b

c

2. a.

b

c

3. a

b