

Warm Up (2/25-2/26)

You have two minutes to:

Discuss and list (use paper and pencil on desk) as many things that involve this category:

Places you can visit to enjoy the environment

Warm Up (2/25-2/26)

You have two minutes to:

Discuss and list (use paper and pencil on desk) as many things that involve this category:

Movies that have an environmental theme or message

Warm Up (2/25-2/26)

You have two minutes to:

Discuss and list (use paper and pencil on desk) as many things that involve this category:

Environmental issues facing the world today

Warm Up (2/25-2/26)

You have two minutes to:

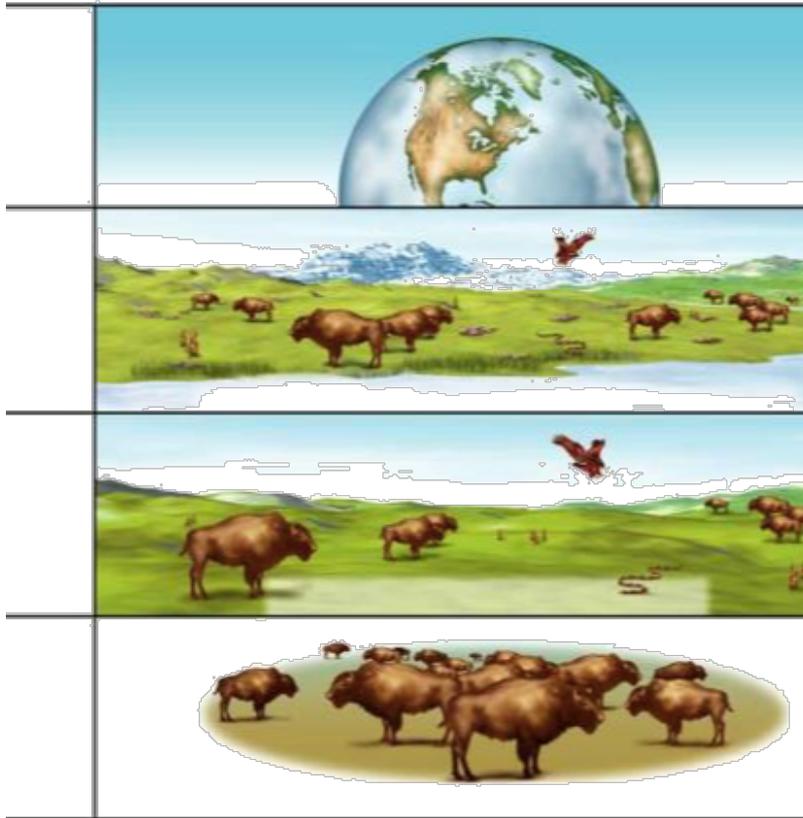
Discuss and list (use paper and pencil on desk) as many things that involve this category:

Ways an individual can help with the environment

Why is Biodiversity Important?

- https://youtu.be/GK_vRtHJZu4

2.1 Notes: Organisms and Their Environment



Agenda

- Ecology lists
- 2.1 Notes: Organisms and Their Environment
- Ecosystem research & drawing

Homework: Finish drawings (Due Wed/Thurs)

****Gala donations are now being accepted****

****Be expecting a quick quiz towards the end of the week****

Ecology

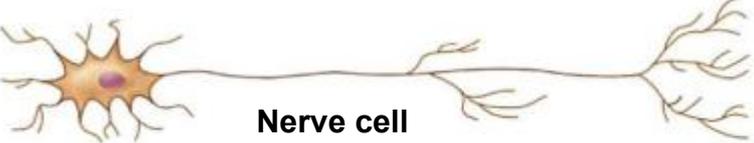
The study of interactions that take place between organisms and their environment



Levels of Organization

Biosphere	The part of Earth that contains all ecosystems	 <p>Biosphere</p>
Ecosystem	Community and its nonliving surroundings	 <p>Hawk, snake, bison, prairie dog, grass, stream, rocks, air</p>
Community	Populations that live together in a defined area	 <p>Hawk, snake, bison, prairie dog, grass</p>
Population	Group of organisms of one type that live in the same area	 <p>Bison herd</p>

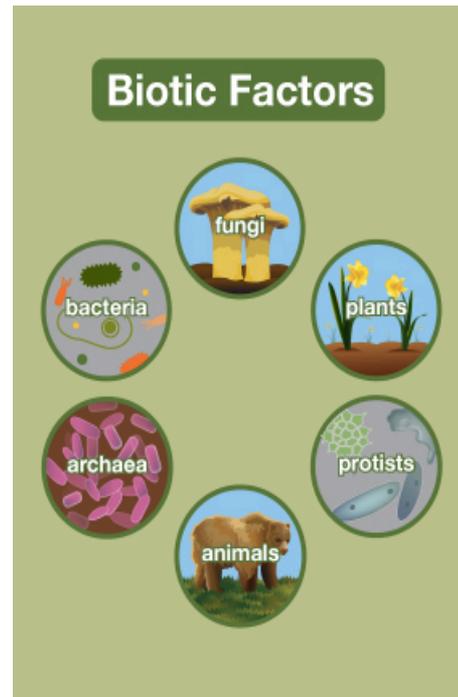
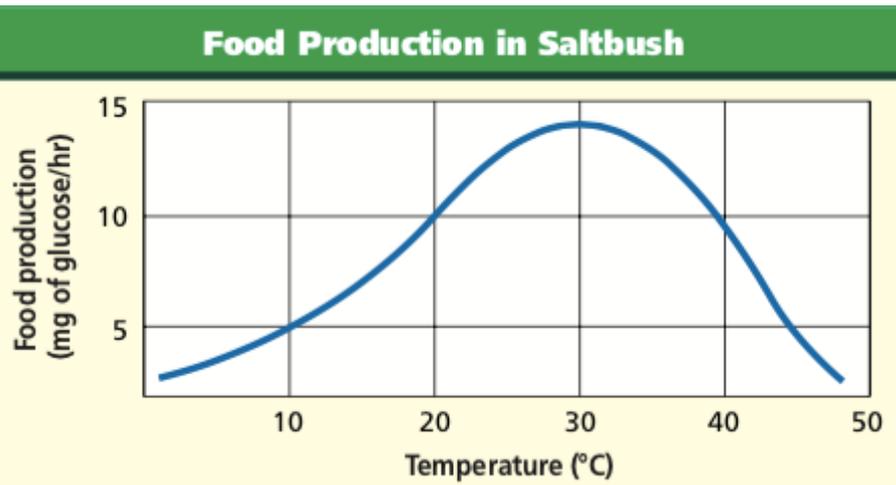
Levels of Organization

Organism	Individual living thing	 Bison
Groups of Cells	Tissues, organs, and organ systems	 Nervous tissue Brain Nervous system
Cells	Smallest functional unit of life	 Nerve cell
Molecules	Groups of atoms; smallest unit of most chemical compounds	 Water DNA

Abiotic vs. Biotic Factors

- **Abiotic factors** are nonliving parts of an organism's environment
 - Ex: temperature, moisture, light, soil

- **Biotic factors** are living organisms that inhabit an environment

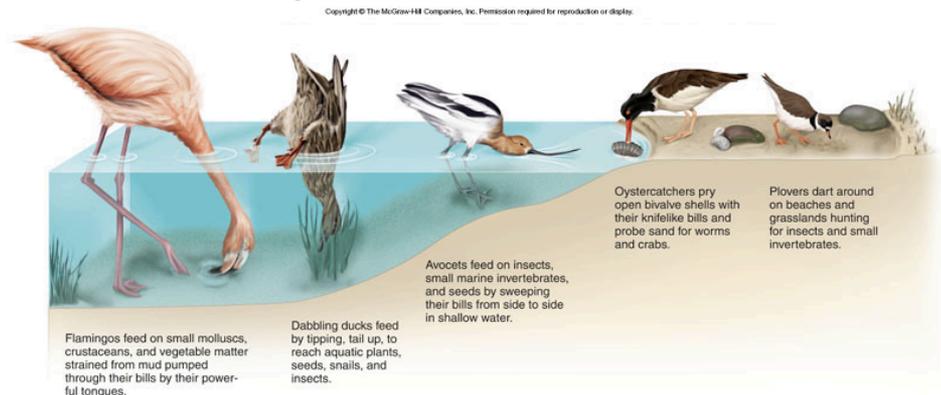


Habitat vs. Niche

- A **Habitat** is a place where an organism lives out its life.



- A **Niche** is all strategies and adaptations a species uses in its environment
 - how it meets specific needs for food and shelter, how and where it survives, and where it reproduces



Comprehension Check

1. Give two examples of **abiotic factors**.
2. Give two examples of **biotic factors**.
3. What is the difference between an **ecosystem** and a **community**?
4. Give an example of an organism and describe its **habitat**.

Youngest (1)- Oldest (4)

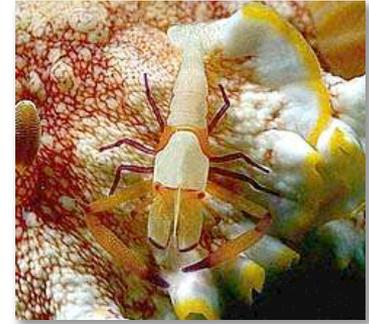
Types of biotic relationships

1. Feeding - one organism eats another
 - a. predator - organism that hunts another organism
 - b. prey - organism that is hunted
 - c. ex: lions feeding on a water buffalo



2. **Symbiosis** - close relationship between two or more organisms; at least one organism benefits:

a. **Commensalism**- one organism benefits, the other is neither helped nor harmed.



b. **Mutualism**- both organisms benefit from living together.



c. **Parasitism** - one organism depends/ lives in or on another organism, the other organism is harmed.



Comprehension Check

<https://youtu.be/zSmL2F1t81Q>