ED Puzzle – Ecological Succession Video Notes

Ecological **SUCCESSION**

Series of **events** by which **life** comes back to an area after a fire, human activity, or natural disaster

Occurs at a **predictable** rate or in a set of events

- ✓ **Pioneer** species - First organisms to grow in an area
- ✓ See progression in the types of **plants** in an area, which determines the types of **animals** that can live there

PRIMARY

- ✓ Starts with **bare** rock and no living things
- ✓ i.e. **lava** flow or volcanic eruption
- ✓ **Soil** develops through weathering & erosion
- ✓ First organisms grow and die to add **nutrients** to the soil

SECONDARY

- ✓ Starts with **soil** that remains after a disturbance
- ✓ i.e. forest **fire** or other natural disaster

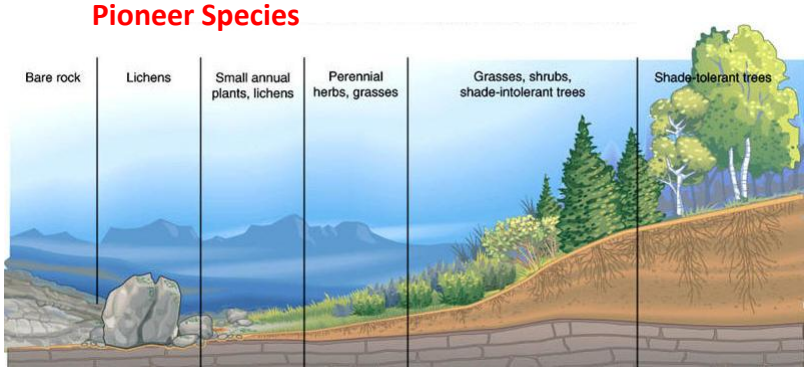
CLIMAX COMMUNITY - Occurs **after** succession

- ✓ See higher **biodiversity** (more living things and more energy available for the food web)
- ✓ Levels off, but **changes** with disturbances in the ecosystem

(Dynamic – not static)

ED Puzzle – Ecological Succession Notes

Pioneer Species



PRIMARY **SECONDARY** **CLIMAX COMMUNITY**

http://visityellowstonenationalparkyall.weebly.com/uploads/1/9/1/2/19128651/4659793_orig.jpg

Glue the worksheet on page 12 – 4 corners
Answer these questions as you watch the video on EDPuzzle.

1. What is ecological succession?

2. Which would probably take the longest time to occur: primary or secondary succession?

3. True or False? Ecological succession follows specific steps.

4. What type of succession occurs when organisms populate an area for the first time?
   A. Pioneer B. Primary C. Secondary D. Random

5. Which is most likely a pioneer species?
   A. Catfish B. Protists C. Grasses D. Oak Tree

6. True or False? Secondary succession always occurs after primary succession.

7. True or False? An area with high biodiversity indicates a healthy ecosystem.

Think About It: What does the statement "Change is the only constant" mean?

The answers are …

1. What is ecological succession? How the an ecosystem changes after a disturbance

2. Which would probably take the longest time to occur: primary or secondary succession? Primary

3. True or False? Ecological succession follows specific steps.

4. What type of succession occurs when organisms populate an area for the first time? A. Pioneer **B. Primary** C. Secondary D. Random

5. Which is most likely a pioneer species?
   A. Catfish **B. Protists** C. Grasses D. Oak Tree

6. True or False? Secondary succession always occurs after primary succession.

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Think About It: What does the statement "Change is the only constant" mean?

Abiotic	Emigration
Adaptations	Food Web
Biodiversity	Generalist Species
Biosphere	Habitat
Biotic	Immigration
Birth Rate	Limiting Factor
Carrying Capacity	Mutualism
Climatogram	Niche
Commensalism	Parasitism
Community	Population
Consumer	Population Density
Death Rate	Predation
Decomposer	Producer
Ecology	Specialist Species
Ecosystem	Succession
	Symbiosis

Term	Definition

Biodiversity – Diversity of life; may be species, genetic, or ecosystem

Succession – Series of events by which life comes back to an area; may be primary (bare rock) or secondary (soil)

Climatogram – Graph showing the average temperature and precipitation for a biome (or region).

★ Set 1 ★ Set 3
★ Set 2 ★ Set 4

Need help? Go to mrstomm.com → Assignments → Look for the Quizlet Eco Vocab link!