

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Per. \_\_\_\_\_

Adv: \_\_\_\_\_

Follow the slideshow with a partner. Complete and/or answer the following sentences.

**Community ecology** examines how species interactions... \_\_\_\_\_

\_\_\_\_\_

**Dynamic** means \_\_\_\_\_

Two ways an ecosystem is altered are disturbance and succession:

A \_\_\_\_\_ changes resources, substrate availability, or the physical environment. It stems from forces *outside* the community.

A \_\_\_\_\_ is a repeatable pattern of regrowth in an ecosystem.

In 3-4 sentences, describe the Yellowstone succession of 1988. Include specific details from the bullet points.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Trade-offs:**

Characteristic	Early Succession	Late Succession
<i>Efficiency at low light (ability to photosynthesize)</i>		
<i>Number of seeds</i>		
<i>Dispersal distance of seeds</i>		
<i>Mature size of plant</i>		
<i>Growth rate of plant</i>		

Analyze data above to make inferences for why these trade-offs occur. Use your understanding of succession. Include specific details from the data above to support your inferences.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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After reading slide 18, go back to your description of Yellowstone on the first page. Bracket and label where you are describing **primary succession**. Do the same for **secondary succession**.

**Types of succession:**

**Facilitation:** What do early "colonists" do to allow less stress-tolerant organisms to grow?

**Inhibition:** What do new colonists need that they cannot always get in order to grow?

**Tolerance:** Why do early-successional species have no effect on late-successional species?

A **climax community** is \_\_\_\_\_

The **intermediate disturbance hypothesis** predicts that \_\_\_\_\_

**PART 2 (Food Chains and Indirect Effects)/(Community Stability)**

In a food chain, each link on the chain represents a different \_\_\_\_\_

Top-down control means that the population is \_\_\_\_\_

What is the difference between a trophic cascade and a behavioral cascade?

