

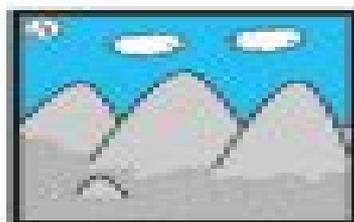
3.1 SUCCESSION—POGIL [PART I]

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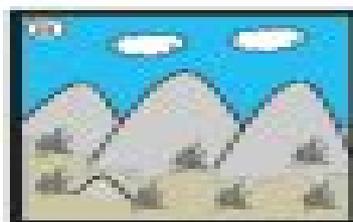
LEARNING OBJECTIVE: Distinguish how communities develop differently over time.

QOCs: May 18, 1980, Mount St. Helens in the state of Washington erupted with the force of a hydrogen bomb. The volcano had been dormant for over 130 years, but more 57 people were dead and forests and lakes were totally destroyed, including nearby Spirit Lake, which became a mud hole. The blast leveled trees in areas over 10 miles from the crater and ash deposits suffocated life on the mountain. However, within weeks, mammals that had taken shelter underground started to reappear in the area, and now, over thirty years later, many areas of the mountain are colonized with a large variety of plant and animal life. How does an area move from a sterile, barren wilderness to one full of life?

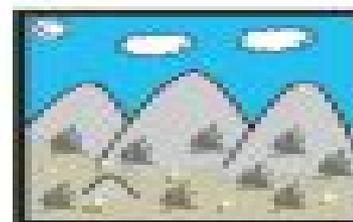
MODEL 1- PRIMARY SUCCESSION



Barren rock flows beneath a towering glacier, or due to a volcanic eruption.



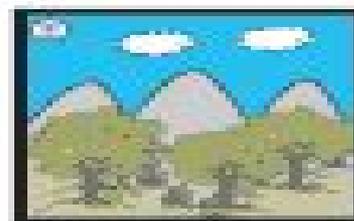
Low-growing plants such as mosses, ferns, and lichens begin to colonize.



Fast-growing grasses, flowering plants, and small shrubs begin to take root. A thin layer of soil develops.



Fast-growing trees such as birch and aspen take root, forming a low forest and shade out lower plants.



100-200 year-old colonization begins. Slower, slow-growing trees, such as spruce, fir, and redwood, replace deciduous trees.

POGIL™ Activities for High School Biology

1. Refer to Model 1:

- On what type of land does primary succession first begin to occur?
- Does there appear to be any life on the land when primary succession begins?
- Why would most plants such as shrubs and trees find it difficult to grow here?

2. Refer to diagram 2 in Model 1:

- What are the first organisms (colonizers) on this land?
- Suggest the mechanisms by which the first colonizers arrived on the land.

Pogil Biology Succession Answers

Siddappa N.Byrareddy



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