

3.1 SUCCESSION—POGOES (PART 1)

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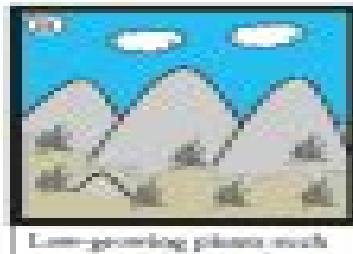
OBJECTIVE: Distinguish how communities develop differently over time.

On 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 than 57 people were dead and homes 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 with deposits suffocated life on the mountain. However, within months, 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?

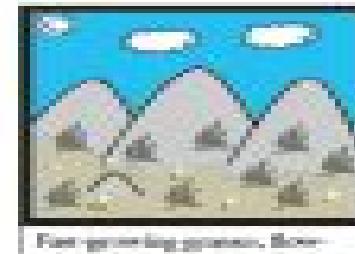
MODEL 1—PRIMARY SUCCESSION



Bare rock slopes; bare soil is increasing; grasses, no shrubs or trees are appearing in non-eroded crevices.



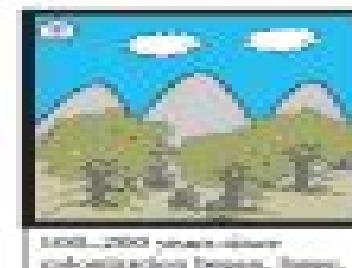
Low-growing plants such as mosses, ferns, and bushes begin to colonize.



Fast-growing species, slow-growing plants, and small shrubs begin to colonize. A thin layer of soil develops.



Fast-growing trees such as birch and aspen dominate the slopes; a few shrubs and small trees are present.



1000–2000 years after colonization begins, larger, slow-growing trees, such as oak, become established.

POGOES™ Authorizes the High School Biology

1. Refer to Model 1:

a. On what type of land does primary succession first begin to occur?

b. Does there appear to be any life on the land when primary succession begins?

c. Why would most plants such as shrubs and trees find it difficult to grow here?

2. Refer to diagrams B in Model 1:

a. What are the first organisms (colonizers) on this land?

b. Suggest the mechanisms by which the first colonizers arrived on the land.

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Shuzhen Liu

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