Date		

## **AIM:** How does ecological succession lead to biome development?

Biome - terrestrial (land) regions and the specific plants and animals that inhabit it biome type is determined by the temperature and precipitation

## Succession -

process by which one community replaces the next until a stable climax community (biome) develops

Primary Succession - "bare rock beginnings" (no soil!) - formation of a new land environment examples: lava flow (formation of a volcanic island), retreated glacier scours landscape to bare rock

Stages in Primary Succession -

Pioneer Species - attach to bare rock(lichens and mosses)
begin the chemical breakdown of rock into soil



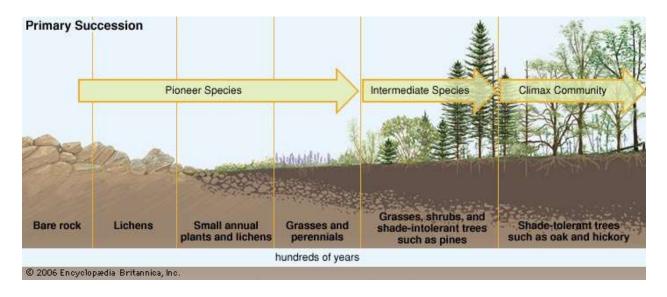
2. Early Successional Species - grow low to ground in little soil need lots of sunlight (grasses)



3. Midsuccessional Species - deeper soil can support larger plants with larger roots (bushes / shrubs / some pine trees)



**4. Late Successional Species -** relatively stable forest mostly trees & shade tolerant plants (oak and hickory trees)



## Climax Community -

plants and animals exist in a stabilized/balanced community = biome

## **Secondary Succession -**

occurs when an existing community is disturbed or destroyed, but not returned to bare rock (soil still present), and then a new community forms in its place - much more common

