

**?**

**W2K**

**Lesson Question**

**Words to Know**

*Fill in this table as you work through the lesson. You may also use the glossary to help you.*

**Contrast** pioneer species and climax communities.

succession.

**Compare** primary and

**Explore** ecological succession.

**Lesson Goals**

|  |  |
| --- | --- |
| climax community | the final stage of succession in which a community is |
| lichen | a and an alga (or bacterium) growing together in a mutualistic relationship |
| pioneer species | the first species to an uninhabited area |
| primary succession | the gradual introduction of species in an area where no or organisms exist |



**W2K**

things

and

An ecosystem is made up of all of the that interact in a particular area.

•

in a particular area.

**Communities and Ecosystems**

* A community is all the populations living

**Words to Know**

|  |  |
| --- | --- |
| secondary succession | the gradual change in the species of an area after a |
| succession | the gradual in the types of species that live in a community |

**Slide**



**Succession**

**Succession** is the gradual change in the types of

that live in a

.

One year later

years later

Three years later

**2**

**Primary Succession**

**Primary succession** is the gradual

of species in an area

where no

or

exist.

**Slide**



**Step 3:** New plants grow and add

to

the soil.

introduced.

, are

**Step 2**: Pioneer species enrich the soil.

**Step 1:**

**species**, like

main steps to primary succession.

There are

**Primary Succession**

**4**

**7**

succession.

quicker than

* Because of this starting point, secondary succession happens much

.

previous plants or animal species

is disturbed but some of the

.

* It occurs when an

a

**Secondary Succession**

**Secondary succession** is the gradual change in the species of an area after

**Slide**

disasters

* Environments struck by
* Clear-cut
* Unused farms

areas

* Deserted

and parks

* Abandoned

**Environments of Secondary Succession**

**climax community**.

stage of succession in which a community is stable is called a

The

**Climax Community**

# Pioneer Species vs. Climax Community

## Pioneer Species

**Climax Communities**

* Mark the start of primary succession

**7**

**10**

* Consist of one or two
* Have a small body size
* Have a large number of
* Mark the end of both types of
* Consist of many species
* Have a large body
* Have a small number of offspring

**Slide**

What is ecological succession?

**Lesson Question**

**?**

**2**

**Answer**

# Review: Key Concepts

## Primary Succession

* The series of changes is predictable.
* Events like volcanic eruptions are causes.
* Soil does not exist.
* does not exist

and requires pioneer species.

* Changes are slow.
* The end result is a community.

## Secondary Succession

* The series of changes is

.

* Events like forest fires are causes.
* Some soil is present.
* Some remains of the previous community are present.
* Changes are quicker than in

succession.

* The end result is a climax community.

**Slide**

**2**

# Review: Key Concepts

## Pioneer Species

* + Mark the of primary succession
  + Consist of one or two species
  + Have a body size
  + Have a large number of offspring

## Climax Communities

* Mark the of both types of succession
* Consist of many species
* Have a large body size
* Have a small number of offspring

*Use this space to write any questions or thoughts about this lesson.*