Name:       Date:       Period:

**Knowledge/Comprehension:**

1. In your own words define succession.

**Application:** Read the descriptions of each pond. Then match the descriptions to the picture of that pond. Get this checked before you go on.

2. Order the pictures of Pond Succession from youngest to oldest. Explain why you ordered them the way you did.

3. Black bass and bluegill make their nests on sandy bottoms. Which Pond would you find these organisms?

4. Golden shiner and mud minnows lay eggs on Chara. In which pond would you find them?

5. In which pond will gill breathing snails be replaced by lung breathing snails that climb to the surface to breathe?

6. What will happen to black bass and blue gill as the floor of the ponds fill with organic debris?

7. Some mussels require a sandy bottom in order to maintain an upright position. In which pond will the mussels die?

8. Predict which pond(s) crayfish will survive considering they can live through times of drought by burying themselves in the mud.

9.Dragonfly nymphs spend their early stages in life clinging to underwater plants. Then they climb to the surface, shed their skins and fly away as dragonflies. Which pond is best suited for dragonflies? Why?

**Research/Notes:** <http://www.marietta.edu/~biol/biomes/succession.htm>

**Primary Succession-**

Examples:

**Pioneer Species-**

Examples:

**Secondary Succession**-

Examples:

**Climax Community**-

Examples:

**Biodiversity-**

**Create an analogy using the following.**

Primary succession is pioneer community as       is to       .

Secondary succession is to Primary succession as       is to       .

**Evaluation/Extension:** Choose 1 of the following to complete.

A. Find an example of Primary Succession, as it has occurred in real life. Describe the situation and explain the steps that occurred. You should be summarizing this so well another student could read and understand what happened.

B. Find an example of Secondary Succession, as it has occurred in real life. Describe the situation and explain the steps that occurred. You should be summarizing this so well another student could read and understand what happened.