Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_

**Freshwater Biome**

**1. Moving Water Ecosystem 2. Deeper Water Ecosystem 3.Shallow Water Ecosystem**

**What is an Ecosystem?**

**A community of living organisms and its abiotic environment:**

**Two factors in Ecosystems:**

\_\_\_\_\_\_\_\_\_\_Factors: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms that live together and interact with one another

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Factors: **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** factors (water, soil, light, and temperature)

**1. Moving Water Ecosystem: \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Streams and Rivers**

* Water can come from \_\_\_\_\_\_\_\_\_\_\_\_ ice or snow
* Water can come from an underground \_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: stream that joins a larger strea
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: very strong, wide stream

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: how quickly the water moves

* In fast moving water—adaptations needed to keep from being washed away

 **Life in Rivers and Streams**

* Plants at\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Fish
* Clams and snails in mud
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_attached to rocks
* Tadpoles have suction discs

**2. Deeper Water Ecosystem: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Ponds and Lakes:** Three Zones

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: close to edge, lots of sunlight
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: goes as deep as sunlight can reach
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: no sunlight; many decomposers feed on dead organisms that sink from above

 **Life in Ponds and Lakes**

**Littoral Zone**



* algae
* Plants: cattails and rushes, water lilies
* Animals: snails, insects, clams, worms,

frogs, salamanders, turtles, fish, snakes

**Open Water Zone**

* Plankton, including algae
* Fish: bass, lake trout, other fishes

**Deep Water Zone**

* catfish, carp, worms, crustaceans, fungi, bacteria (decomposers)

**3. Shallow Water Ecosystem: Wetlands \_\_\_\_\_\_\_\_\_\_\_\_\_\_** and **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **Wetland**

* Area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or whose soil contains lots of moisture
* Important in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: soak up lots of water
* Help replenish underground \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

 **Marshes**

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: treeless wetland; found in shallow areas along lakes, ponds, rivers,

 and streams

**Marsh life:**

* Plants: grasses, reeds, bulrushes, wild rice
* Animals: muskrats, turtles, frogs, birds

 **Swamps**

\_\_\_\_\_\_\_\_\_\_\_\_\_: wetland with trees and vines; low areas near slow rivers; flooded part of

 year

 **Swamp Life:**



* Plants: willows, bald cypresses, oaks, vines,

poison ivy, orchids, water lilies

* Animals: fishes, snakes, birds,

alligators, turtles