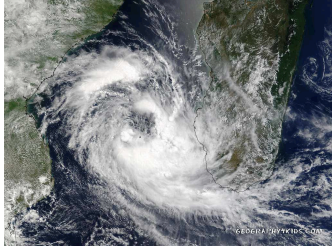


Chapter 37 - Zoogeography
Critters Habitat's and Where to
Find Them

AQUATIC BIOMES



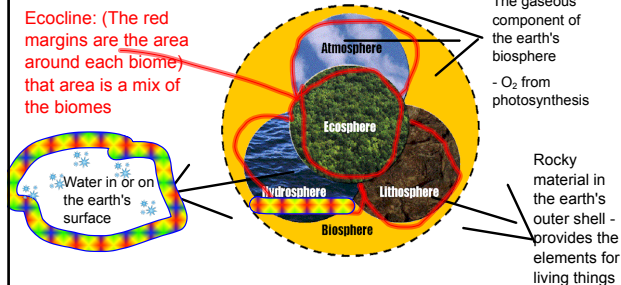
Quizlet Review of Vocabulary:

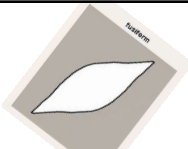
- Link on assignment sheet
- Review vocabulary
- Take Quiz **Due Mon 9/24**
- Take a screen shot: snip it tool and email it to me.
 - On PC or apple+shift+4 on Mac

Biosphere

The thin layer of the earth that can support life.

3 Subdivisions





Fusiform!


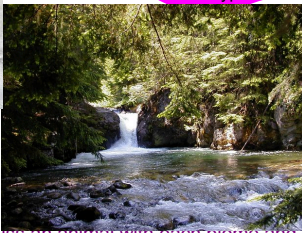
Watch for this shape

Primary forces involved in swimming:	Fusiform shape:
<p>Thrust - force that propels forward</p> <p>Drag - friction produced from passing an object through a medium</p> <p>Gravity - force from earth's magnetic pull (partially counterbalanced by density of water)</p> <p>Lift - upward force that counteracts gravity</p>	<p>Pointed leading edge</p> <p>Maximum depth 1/3 body length back from head</p> <p>Posterior taper</p> <p>Caudal fin interrupts ideal fusiform shape</p>

Aquatic Environments: Biomes

1. Inland Waters: (2.5% of waters are fresh)

- > **Lotic:** Running water
- > Streams, creeks, river
- > High concentrations of O₂ because of the mixing/turbidity

Streamline

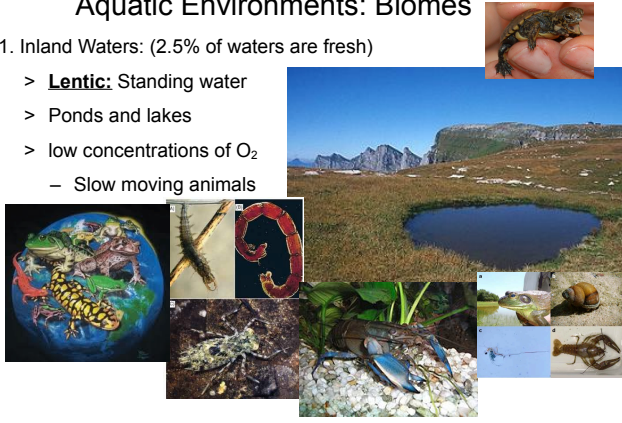
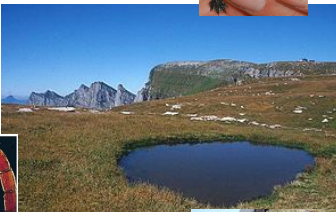
- Don't need super fancy gills because there is lots of O₂

Exam Hint: Be able to pair and discuss an animal with each biome and discuss how they are adapted to the biome.

Aquatic Environments: Biomes

1. Inland Waters: (2.5% of waters are fresh)

- > **Lentic:** Standing water
- > Ponds and lakes
- > low concentrations of O₂
 - Slow moving animals

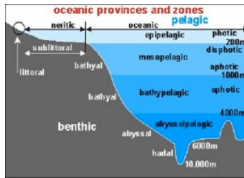
Aquatic Environments: Biomes

2. Oceans: (71% of Earth's Surface)

- > Life evolved in the oceans
- > diversity of ocean organisms is immense!



> Zones:

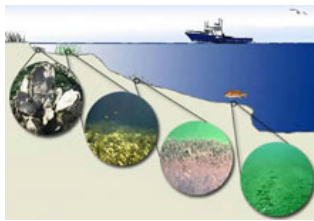
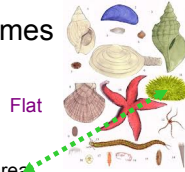


Aquatic Environments: Biomes

2. Oceans: (71% of Earth's Surface)

Benthic "sea bed"

- > 98% of ocean life
- > Filter feeders = round to increase surface area



Aquatic Environments: Biomes

2. Oceans: (71% of Earth's Surface)

Pelagic: Open Ocean

- > Holds 2% of sea life (Its lonely!)
- > Adaptations: to find mate and hold on! or school