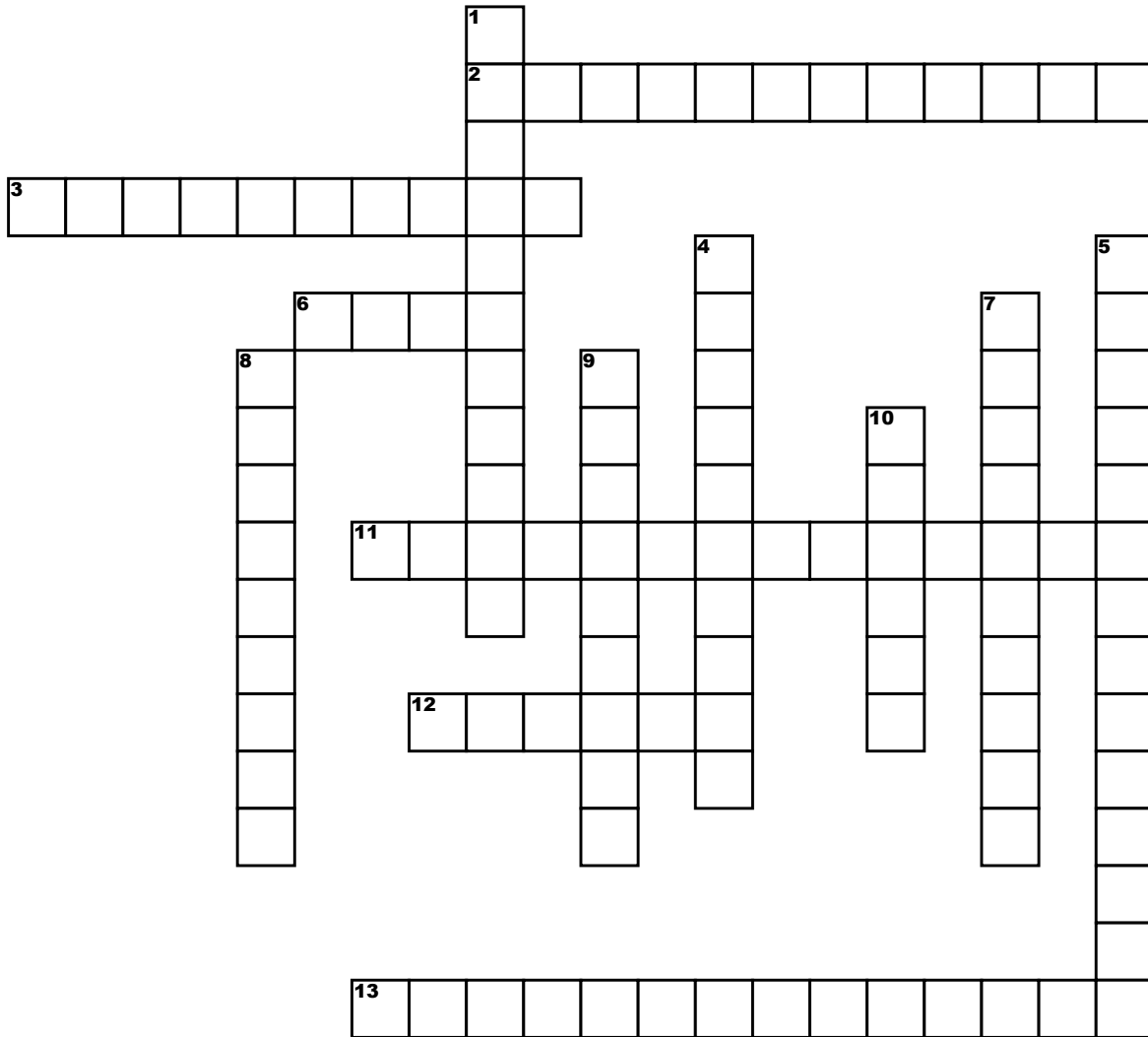


# Aquatics



**Across**

2. is any more or less permanent or continuous, directed movement of ocean water that flows in one of the Earth's oceans.

3. a relatively strong, narrow current flowing outward from the beach through the surf zone and presenting a hazard to swimmers.

6. Circulation around ocean currents of an ocean basin

11. a self-contained convective zone in a fluid in which upward motion of warmer fluid in the center is balanced by downward motion of cooler fluid at the periphery.

12. a cooling of the water in the equatorial Pacific that occurs at irregular intervals and is associated with widespread changes in weather patterns

13. are separated from lower regions by varying temperatures and salinity which affect the density of the water, which in turn, defines each oceanic region.

**Down**

1. the downward movement of fluid, especially in the sea, the atmosphere, or deep in the earth.

4. Warm water current off of the east coast of the United States

5. an effect whereby a mass moving in a rotating system experiences a force (the Coriolis force ) acting perpendicular to the direction of motion and to the axis of rotation.

7. a wind blowing steadily toward the equator from the northeast in the northern hemisphere or the southeast in the southern hemisphere, especially at sea.

8. a scientific term that describes the fluctuations in temperature between the ocean and atmosphere in the east-central Equatorial Pacific

9. a rising of seawater, magma, or other liquid.

10. an irregularly occurring and complex series of climatic changes affecting the equatorial Pacific region and beyond every few years, characterized by the appearance of unusually warm, nutrient-poor water off northern Peru and Ecuador,