## Principle 1

## Principle 1: Earth has one big ocean with many features.

The ocean, which covers 70% of Earth's surface, is the defining feature of the planet.

Properties of Ocean Water — A		Ocean Circulation — B					Geographic and Geologic Features — C			
97% of all water on Earth is salt water in the ocean.		The ocean is a single, huge, interconnected body of water that circulates through all the ocean basins and continents.					The ocean floor has a variety of geological and geographical features comparable to those on land.			
<b>A</b> 1	A4	B1		B6			C1	C2		C5
Only 3% of all water on Earth is fresh water stored in lakes, rivers, underground aquifers, glaciers, and other places.	Salinity and temperature vary throughout the ocean.	The ocean, the largest reservoir of water on Earth, is integral to the water cycle.		Water in the ocean is constantly moving and mixing vertically and horizontally.			The ocean has many basins. They are called the Pacific, Atlantic, Indian, Arctic, and Southern basins.	The ocean floor has other features such as mountains, plains, valleys, volcanoes, canyons, trenches, and ridges.		The features of the ocean floor influence ocean circulation patterns.
A2	A5	B2	В3	B7	В9	B10		C3	C4	
Most of all the fresh water in the world is stored in ice caps and glaciers	The movement of ocean water as currents is partly driven by these differences in salinity and temperature.	Water circulates from land to the ocean and back via watersheds and the water cycle.	Lakes and glaciers are connected to the ocean via watersheds that are made up of rivers, streams, and groundwater.	Wind- and density-driven currents move ocean water around Earth.	Tides move ocean water higher and lower, covering and uncovering the shoreline.	Waves crash on the shore moving and mixing the water.		The highest mountain on Earth is in the ocean. It is called Hawaii, an island in the Pacific Ocean.	The lowest point on Earth is in the ocean. It is called the Mariana Trench, and is located in the Pacific Ocean.	
A3			B4	B8			•			•
Fresh water melting from glaciers contributes to the ocean and can change its salinity and temperature and cause sea level to rise.			Watersheds drain water from inland to the ocean.	Organisms travel on currents.						
	1		B5		J					
			Runoff from watersheds							

impacts the ocean.