06. Oceans and the water cycle

The Raphaëla Le Gouvello education packet - Windsurfing solo across the Indian Ocean

http://www.respectocean.com



Earth, Water, and Climate



If you compare pictures of several planets with those of the Earth taken from space you'll see that the dominant color of our planet is blue, which is why the Earth is often called "the blue planet."

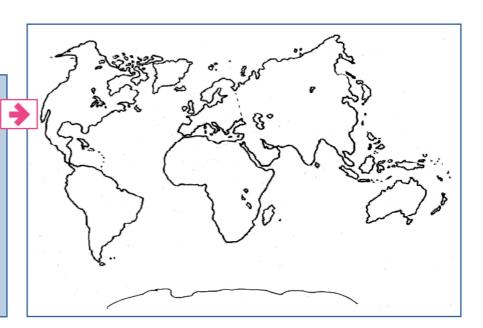
How can you explain that?

Did you know?

Oceans cover 360 million square kilometers (139 million square miles) of Earth, about three-quarters of our planet's entire surface.

Activities

- Identify the oceans on the world map.
- Color the seas and oceans blue and the continents yellow.
- Mark the course Raphaëla will take.
- ▶ Look up the oceans' surface area, average temperature, depth, etc.
- Can you define the word "ocean?" What is the difference between an ocean and a sea?



(त्र) Activities

- Fill two identical containers with water. Mark the water level on each with a felt pen. Put one container outside in a shady, covered area, place the other in the classroom on top of a radiator.
- ▶ Take notes on your observations.
- What are your conclusions? What became of the water?
- ▶ To check your answers, you can carry out the following experiment with your teacher or an adult: heat a pot of water and place a cold lid on top (glass or metal).
- What do you see?

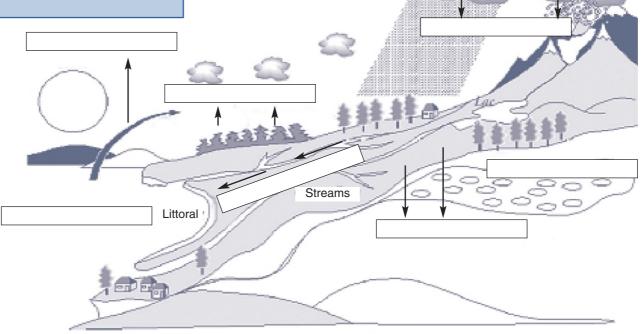
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7 J Activity

Fill in the diagram below by placing the following words in the proper space: precipitation, evaporation, condensation, runoff, seepage, aquifer, ocean.



7 Activity

Complete the following text to explain the water cycle.



The sun heats the oceans, tra	ınsformin	ng wa	ter into '	vapor. Th	nis is
called	Plants a	also	release	water v	apor
hrough secretion; this is ca	lled			All	this
vater vapor rises into the atm	osphere a	and			
vhen it hits cold air in the hig	her altitu	des. I	Fine dro	plets are	for-
ned, creating	٠١	which	n are tra	ansporte	d by
he wind. Water falls back to I	Earth in tl	he for	rm of rai	n, snow,	and
nail; these are					

Once on the ground, more than half the water evaporates. The remainder can soak into the earth and feed the water table and underground rivers (i.e), or else it and flows out into streams. It then returns to its starting point: the ocean!

Did you know?

The water cycle is so perfect that it is thought there is today the same quantity of water on Earth (some 1 billion billion tons) as there was two billion years ago!

