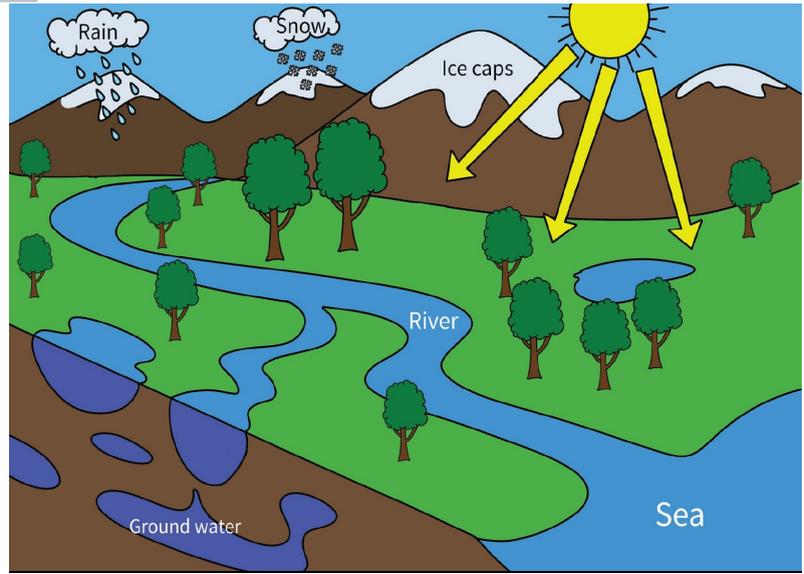
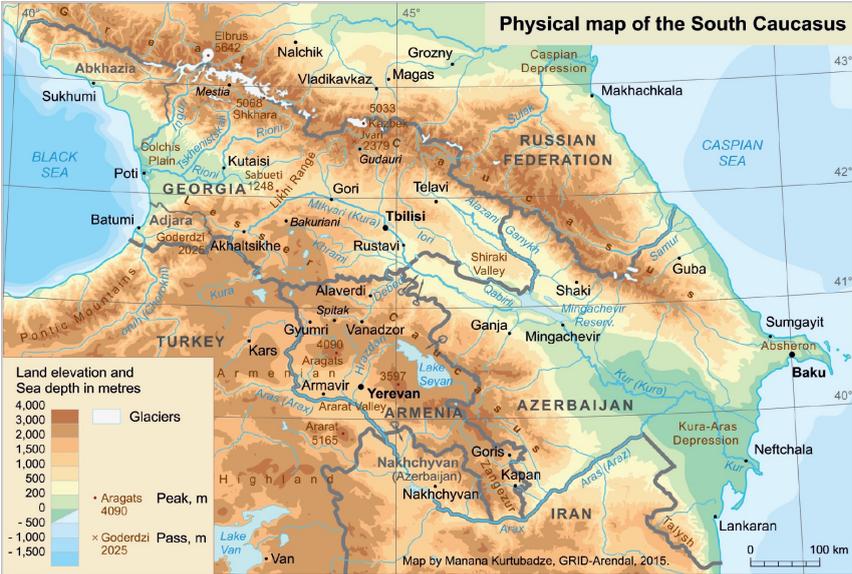




Life in Water and Water in Ecology

VI-VIII Grades





Life in Water and Water in Ecology

Water is a key substance that determines life processes in human beings or in other living organisms, whether it is breathing, cell reproduction or other bodily functions.

It is important to remember that water is necessary not only for humans, but also for ecosystems to survive. Ecosystems have the same rights to water as humans. It is in the best interest of all human beings that ecosystems have sufficient water to carry out their functions and provide ecosystem services.



What services ecosystems provide? Ecosystem services are benefits that contribute to maintaining and improving the well being of humans. For instance, reducing the risks of floods and landslides through forestry; pollination of plants by bees and birds - these are vivid examples of services provided by an ecosystem.



It Is Interesting

Up to 70% of adult human's body consists of water! 73% of brain is water, 73% of heart is water, and 83% of the lungs are water.

67% of cells in the human body are water!

An adult requires from 50 to 100 liters of water a day for various needs - for drinking, meals, and hygiene, etc.



In current practice, a person uses water intensively in his/her daily life. We cannot name a single human activity that does not require water. Water is used in electrical energy generation, in industry, and in agriculture. The majority of cargo is transported by sea.



In most cases, human beings use water irresponsibly, due to which many regions of the world no longer have enough water to support humans or other living organisms. The situation is further complicated by ongoing climate change. The results of climate change affect all water resources. At present precipitation and river volume are reduced in many regions of the planet. Predictions for the future are more alarming.

The situation created poses a threat to ecosystem services which are essential for life on the Earth. To improve the situation and avoid future problems the cooperation of all countries is absolutely necessary. Each of us is important in mitigating the problem and improving the situation. We need to fully understand the significance of water and start using water in our daily lives in a reasonable and responsible way.



Do It Yourself

- 💧 Think of examples of ecosystem services, the benefits which humans receive from nature. Try to classify these benefits, and if necessary, ask your teacher for help.
- 💧 Discuss how water pollution impacts availability of water for human needs or for ecosystem needs.





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