



The water cycle

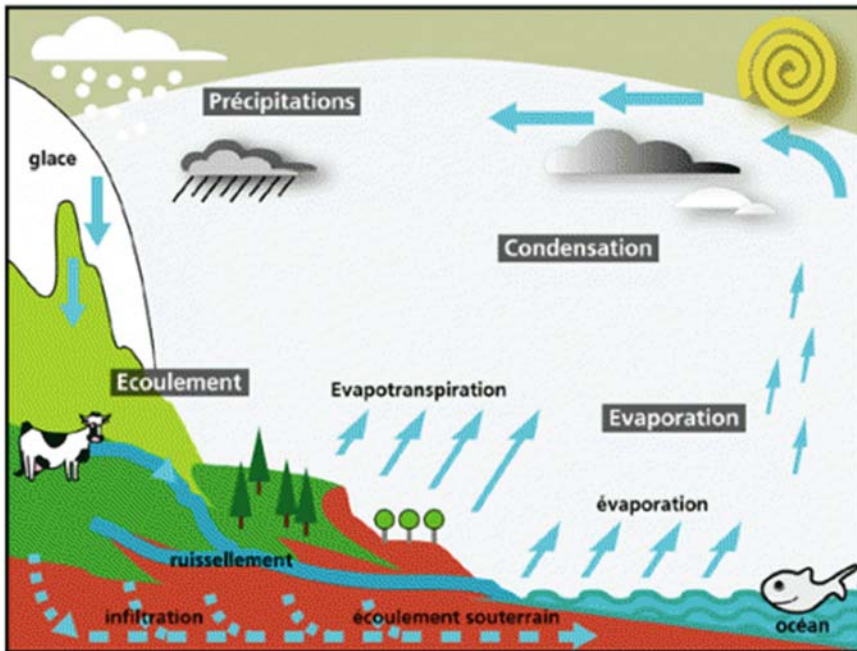
Title	The water cycle
Content/ Key words	Resource
Description	<p>Water appeared on Earth about 4 billion years ago. Only 28% of the surface of our planet is not covered by water. Its volume (around 1,4 billion cubic kilometres) is keeping generally stable: the same water is in circulation and transforms permanently through the water cycle. Indeed, water changes states and exists on earth under three different states: liquid, solid and gaseous.</p> <p>Liquid state (clouds, water streams, seas, oceans...)</p> <p>Condensation: when in contact with colder layers of the atmosphere, water vapour condenses in tiny droplets which gather together and form clouds, which are at the origin of precipitations.</p> <p>Solid state (Ice)</p> <p>Solidification: because of negative temperatures, water transforms into ice.</p> <p>Gaseous state</p> <p>Evaporation: Heated by the sun, the water from the oceans, rivers and lakes evaporates and goes up in the atmosphere. It is described as water vapour.</p> <p>Water is divided as follow:</p> <ul style="list-style-type: none"> ● 97,20%: salty water ● 2,15 %: polar ice ● 0,63 %: underground water ● 0,019 %: surface water (lakes, rivers) ● 0,001 %: water in the atmosphere <p>Water renews itself with variable speed: 1000 years for a groundwater table, 4000 years for an ocean, 15000 years for a glacier. By renewing, we</p>





	<p>understand the average time that is necessary for a stocked volume in a reservoir, at a given time, to be entirely replaced by upcoming water supplies. Only 0,65% is neither salty nor icy and 97,2% of the water of our planet is salty (seas and oceans). However, only freshwater (of which only a part is easily usable) is used for the humans' vital needs (food, agriculture...). We estimate that more than 80 countries in the world (i.e. more than 40% of the global population) are facing major water droughts.</p>
<p>Link to a national support by country</p>	<p>Croatian:</p> <ul style="list-style-type: none"> • { HYPERLINK xxxxxxxx} For the links, when you past them must appear { HYPERLINK xxxxxxxx} That shows that the link is working, even when it past in PDF or on internet. <p>Greek:</p> <ul style="list-style-type: none"> • XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX • XXXXXXXXXXXXXXXXXXXXXXXX <p>Italian:</p> <ul style="list-style-type: none"> • XXXXXXXXXXXXXXXXXXXXXXXX • XXXXXXXXXXXXXXXX <p>French:</p> <ul style="list-style-type: none"> • https://physique-chimie-college.fr/cours-5eme-chimie/les-changements-detat-dans-la-nature-le-cycle-de-leau/ • https://www.pccl.fr/physique_chimie_college_lycee/cinquieme/cours_exercices_corriges/eau_nature.htm
	<p>sheet n°2: My environment is changed</p> <p>sheet n°9: Drawing your climate reality</p> <p>sheet n°15: Activity to design an ecological house model</p> <p>Sheet project J: Waterap</p>





Source Dossier CNRS sur le cycle de l'eau

