Water is life. To learn about water means therefore to learn about life, which emphasizes the importance of this subject. Pupils in school learn valuable information in school which is connected not only to their own personal life, but to all life on earth.

The united Nations has set 17 goals "for sustainable development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future." (https://sdgs.un.org/goals) These goals shall also be taught to pupils. Since one of the goals is about clean water and sanitation there is a perfect connection to learning about water in school.

To understand water and its properties and to be able to talk with others about that, it is quite significant to learn some theory and terms:



The mindmap above displays the different properties of water, e.g. adhesion and cohesion. Adhesion means the attraction of molecules of one kind for molecules of a different kind. Therefore water can reach all parts of a plant. Cohesion on the contrary means the attraction of molecules for other molecules of the same type. These sinews are responsible for surface tension. (cf. https://www.khanacademy.org/science/ap-biology/chemistry-of-life/structureof-water-and-hydrogen-bonding/a/cohesion-and-adhesion-in-water)

Especially for pupils, but also for us university students, it is immensly important to connect theoretical lessons with our own life. Otherwise all the theory will not stick to us long-term. For this specific topic that can be reached by collaborations with sustainable companies like





Rambøll. Their mission is to create sustainable societies. The municipality of Oslo is planning a second water reservoir, Rambøll is for example responsible for controlling the water quality of rivers and creeks that are near the tunnel that is being built. Thanks to the engagement of our teachers it was possible to collaborate with Rambøll. We met Tom, on of the

employees of Rambøll, at Makrellbekken in Oslo.

He explained to us the importance of momitoring the water and we were able to take samples ourselves. On the next day we were measuring the PH value.

To be active yourself is a great possibility to intertwine theory and practice in order to establish a deeper understanding, develop a serious relationship and to create a meaningful



connection between those.

Further links:

Timelaps: <u>https://www.youtube.com/watch?v=rDXvCsWPhfM</u> Video: <u>https://www.youtube.com/watch?v=S4GrmWK_VwQ</u>