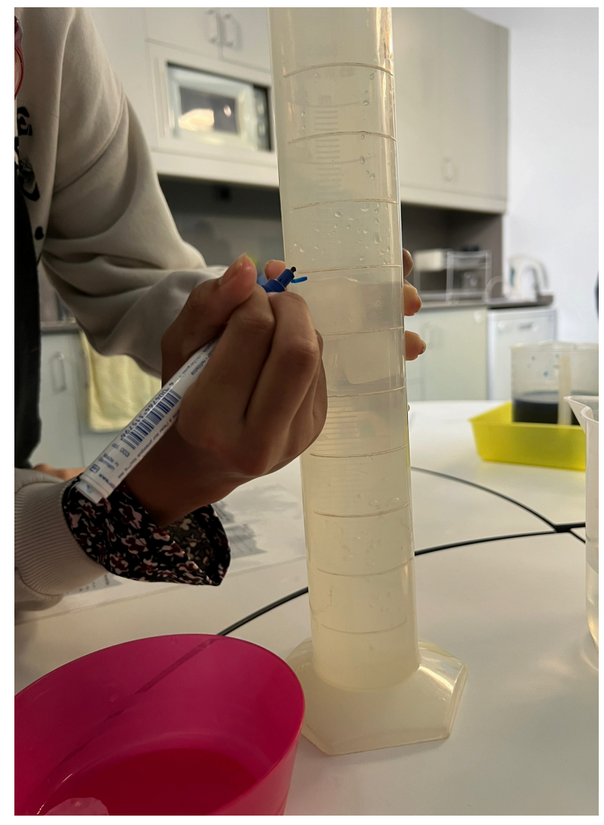
Workshop

Aigualogia

Biology, Geology, Physics and Chemistry

11-16 years old



Description

Why is water the basis of all forms of life? This is the question that drives us to investigate this common liquid, which at the same time has extraordinary physical and chemical properties.

Working in groups and using scientific procedures on solubility, capillary action, and heat capacity will allow us to share the knowledge we've acquired and also reveal everyday and environmental aspects of water, which we will present at the end of the workshop in the form of a contest.

ACTIVITY GOALS

→ **Conducting experiments** as a tool for representing reality, with the goal of helping to understand the world.

→ **Understand** the relationship between the uniqueness of the **water molecule**, **its physicochemical properties**, and the exceptional nature of life on Earth.

→ Act in a methodical and rigorous manner when conducting experiments, **observing results, drawing conclusions**, and sharing them, based on a **cooperative work methodology**.

Capacity: class group (25-30 students)

Duration: 90min

Schedule: 9.30h & 11.30h

Museu de les Aigües

ADDITIONAL RESOURCES

Through education, we want to move toward a more sustainable and environmentally respectful society that values the importance of water in our lives. For this reason, we invite you to continue learning about water with the museum's digital resources best suited for this age group:

Water: the driving force of the city

A four-episode documentary serie will show the challenges of managing the integrated water cycle, explained by people that participate in the process.

https://www.museudelesaigues.cat/activitats/docuserie-aigua-impuls-ciutat/

Water science

In "Water science", the scientist Dani Jiménez will challenge you to try some experiments that are thought to have a good time with your family. You will discover some water propierties and the scientific method.

https://www.museudelesaigues.cat/activitats/la-ciencia-de-laigua/?educativa=true

Educational activities for the virtual Museum visit

Remember your visit to Museu de les Aigües and show what you have learnt about water, sustainable development, biodiversity and SDGs.

https://www.museudelesaigues.cat/activitats/activitats-educatives-visita-virtual-museu/?educativa=true

Educational activities for the virtual ETAP visit

Participate in these virtual interactive activities that are a perfect complement to the virtual visit through the Drinking water treatment plant in Sant Joan Despí. You will learn how to make drinking water!

https://www.museudelesaigues.cat/activitats/activitats-educatives-visita-virtual-etap/?educativa=true

24/7/365 The complexity behind having tap water

Thanks to this game you will discover infrastructures, people and all the necessary tasks that are ncesessary to supply water to more than three milion people, 24 hours a day, 7 days a week, 365 days a year.

https://www.museudelesaigues.cat/activitats/24-7-365-la-complexitat-de-tenir-aigua-de-laixeta/?educativa=true

Origin, save the water

"Origin, save the water" is an interactive comic in which you decide how to continue the story. The challenge? Help two teenagers in their adventure to return water to their home.

https://www.museudelesaigues.cat/activitats/origen-rescatem-laigua/?educativa=true

The millennium challenge

A puzzle game about SDGs and their connection to water. A starting point to learn about SDGs, which are part of the commitment that almos 200 countries accepted and that they can be applied individually, collectively, at school, at home... All of us play an important role.

https://www.museudelesaigues.cat/activitats/repte-millenni/?educativa=true

BOOKINGS INFORMATION

- ➔ Please check availability in advance and make a booking (93 342 35 38).
- ➔ Please inform us in advance if any visitor has any special need, we will work in order to offer you an adapted activity.
- ➔ Please inform us if you come with a special educational needs group, we will work to adapt the activity you have chosen.
- ➔ Please be as punctual as possible on the day of the activity.

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