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SAVE THE WATER

Dealing with an oil spill.

ROBOTONIO - INNOVATION FOR TEACHERS - STEAM IN THE CLASSROOM

The oil



The oil is so valuable that it is called black gold. It's a dense black, dark brown, or greenish liquid rock. We use it daily to heat our homes and drive our vehicles (gasoline).



The oil tankers



Oil is transported daily by tankers. Unfortunately, oil tankers are often damaged, releasing significant amounts of oil into the sea.



The consequences of an oil tanker accident

An oil tanker accident can cause environmental damage. The thick oil pollutes not only the water but also the beaches. Then, at the same time, push the death of many animals.



SAVE THE WATER

How difficult is it to clean the water after this accident?

You will answer this question with the following activity.

Materials:

For “oil”

- A glass of sunflower oil.
- Cocoa.
- Spoon.
- Bowl with water.

For water purification:

- Glasses.
- Cotton.
- Spoons.



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SAVE THE WATER

Mix sunflower oil with cocoa and create a thick liquid. The texture is like petroleum.
Pour it into the bowl of water and watch what happens.



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The “oil” does not mix with water.
So our goal is to remove the oil without removing the water.



SAVE THE WATER

If we use glass, we can extract quite a lot of oil and remove water.
So we remove the oil with the spoon, but it takes a long time to succeed.
The cotton also absorbs oil, but it takes even longer.



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SAVE THE WATER

The work you have to do is challenging but essential.
That's why you should work as a team! Create groups of
4-5 people, decide how to save the water, and GET
STARTED!



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