



Lesson Plan Title: Reservoirs & Water Towers (water collection)

Concept / Topic to Teach: To give the students an understanding of exactly where their water comes from and how we collect it for use

Target audience: Primary school students 1st class upwards

General Goal(s): Water Awareness

Specific Objectives:

- To learn exactly where water comes from and the route it takes to get to our taps.
- To heighten the students appreciation of their local rivers
- To teach children about reservoirs and water towers
- To introduce students to water pollution and how it impacts our water sources

Seven Step Link: All

Required Materials:

- A map of the local area. I got one for the Dublin and Wicklow area from the OSI.
- Laminated pictures of reservoirs and water towers in the local area. I also show the students some pictures of different types of water towers.
- The water cycle poster.

Preparation Level: Low, once you have your pictures and map ready to go.

Students' pre-requisite knowledge and skills: This talk would be part of a broader workshop on where water comes from, how it gets to our taps etc..., so the students will already be familiar with the water cycle.

Anticipatory Set (Lead-In): I would initially do the 'Water Cycle' activity and use the poster to show the students the water cycle.



Step-By-Step Procedures:

- When we get to the part of the Water Cycle on 'Collection' I would ask the class how do they think we collect water from rivers and lakes. I would ask them have they ever heard of a dam and do they know where there's one. I would explain how a dam works and show them pictures.
- I would ask them have they ever heard of a reservoir. Again I would ask them where are their local ones and I would show pictures.
- I would then ask them what else we use to hold large volumes of water. I would describe a water tower and most of the students will know them but they never knew that's what they were used for. Again I would ask them where they had seen them. I would show them pictures of water towers in their local area and I would also show them pictures of ones that come in different shapes and sizes

Extension

I would then go on to talk about how the water then goes to a water treatment plant. I would very briefly chat about water treatment and how important it is for our health to have clean, safe water on tap. I would also tell the class how many kilometers of pipes bring the water to our taps.

Links to other subjects

English:

Receptiveness to Language

Developing competence and confidence in using oral language.

Developing cognitive abilities through language.

Emotional and imaginative development through language.



Geography:

Geographical investigation skills- questioning, observing, predicting, estimating and measuring, analyzing and communicating.

Human environments.

Natural environments.

Environmental awareness and care.

Science:

Working scientifically- questioning, observing, predicting, estimating and measuring, analyzing (sorting and classifying) and communicating.

Living things.

Materials- properties and characteristics of materials.

Environmental Awareness and care.

Visual Arts:

Concepts- an awareness of shape, form, texture etc...

Social, Personal and Health Education:

Myself- Developing self-confidence, making decisions, safety and protection.

Myself and the wider world- environmental care