



MIW Water Cooler Experts' "Water, water everywhere" lesson plan

Name of Lesson: **Water, water everywhere**

Subject: **Geography / Environment**

Age: **Year 5 / 6**

| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Overview and Purpose: Water scarcity is often a concept students have difficulty visualising because of the apparent easy access to clean water in everyday lives. This lesson aims to address the complexities of water availability. | | Cross Curricular: Geography, science, maths and literacy | |
| | Teacher Guide | Student Guide | Materials Needed: |
| Objective | Students will practically experience the effects of water availability and are given the opportunity to explore solutions to problems that different countries face. | I will explore how to make sure that homes, agriculture and industry all get enough water to be successful and explore how to overcome difficulties in supplying water. | Station 1: 10 labelled cups with holes (3 industry, 3 agricultural and 4 home) Water jug Table to collate findings |
| Information | Introduce the idea of water availability in our country and the problems the students are aware of in other countries. Use Water Aid website (www.wateraid.org/uk) for further information. Share ideas and collate information as whole group. Children to understand who needs water (home, industry, agriculture). What would happen if water wasn't available? What state does the water need to be in? (eg clean). | Where does our water come from? Is water available to everyone in the world? What are the problems in the world when water isn't available? Why do we appear to have an abundance of water in our country? | Station 2: 10 labelled cups (no holes) Water jug Plastic tubes Dirt to add Table to collate findings Station 3: 10 labelled cups with holes Water jug Dirt to add |

| | | | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Activity</p> | <p>Tell children they will explore the problems countries face through three water stations.</p> <p>Station 1: Water abundance. Children to measure 2 litres of water (can be adjusted). They are to share out the water between the Agriculture (3 cups), industry (3 cups) and home (4 cups). The cups have holes in.</p> <p>Children to record how much water each cup receives. In this station the water jug can be refilled.</p> <p>Station 2: Water transport.</p> <p>Children to measure 2 litres of water and add dirt. The cups (without holes) are a distance from the water jugs. (Teacher to decide). Children to get the water to the cups using equipments given. Measure the water in each cup and any observations.</p> <p>Station 3: Water scarcity.</p> <p>Children to measure only 1 litre of water in jug. Add dirt.</p> <p>Children to discuss how much water they will put in each cup and give reasons why.</p> | <p>Station 1: Measure how much water you put into each cup. This represents western countries which appear to have lots of water available. What does this mean? Do we waste water? Why is some water clean? How does it become clean? What are your opinions on water usage in this station?</p> <p>Station 2: This is dirty water and is available but has to travel long distances to get to where it needs to be. How can we transport water? Is transporting water cheap or expensive? What kind of land does the transport have to cover? Does your solution to the problem cover the possibility of mountains, rivers, desert etc?</p> <p>Station 3: There is not enough water in this station. All cups are not going to have enough. What does it mean to each area? What are the implications for agriculture or industry to not have the water it needs?</p> | <p>Table to collate findings</p> <p>Additional Notes:</p> <p>Tables for children to collate information to be adapted by the teacher.</p> |
| <p>Summary</p> | <p>Collate the children's finding. Encourage children to present their thoughts. Remaining class to ask questions. This discussion could be the basis of the next lesson.</p> | <p>Prepare a short presentation on each water station you visited. Tell the class your findings, summary and thoughts.</p> | |