

## Lesson 4

### WATER, WATER EVERYWHERE?

#### Learning intentions



1. Appreciate that water is a precious resource, which is limited and needs to be shared by all living things.
2. Understand that clean water is not available everywhere.
3. Appreciate that water usage is different in different parts of the world.
4. Know that we can all contribute to reducing water consumption.

#### Resources



- 'Diamond 9' resource sheet (FE 4.1)
- <http://wateruseitwisely.com/kids/>  
A selection of online games of various levels of difficulty based around the topic of water conservation.
- <http://www.wateraid.org/uk/audience/schools#/teaching-materials>  
Excellent site giving a startling insight into how water is often overlooked as a vital resource.
- 'Water around the world' PowerPoint
- Tap image (FE 4.2)
- Water droplet image (FE 4.3)
- One-litre drinks bottle

#### Introduction



Explain to the children that in this lesson they are going to study the Earth's most precious resource. Ask what they think that might be and why. Hopefully you'll get the answer 'water' and that it is vital because most living things cannot survive without it.

Carry out the 'Diamond 9' activity (FE 4.1) in groups. Place the most important statement at the top of the diamond, with the least important at the bottom. The statements have been chosen deliberately to be awkward to place – they're all important! However, there will be considerable debate as to which statement belongs where. There is no correct answer!

## Lesson 4 *continued*

### WATER, WATER EVERYWHERE?

#### Development



The pupils are now going to see how they use water, and whether or not they use it responsibly.

Start by showing the pupils a litre bottle of water. Ask them how many of these do they think they use in a day – 10, 50 or 150 litres. Ask them to justify their answer but don't give them the correct one. *Around 150 litres.*

Have the children draw a cut-away image of a house with the main room highlighted i.e. kitchen, bathroom, living room and bedrooms, Have the children go through each room listing all the places and ways water is used. *You may wish to carry out a similar activity based on the usage of water at school.* Extend the idea of usage to include recreation and more obscure uses like the water in tea, coffee and juice or in foods. *Notice also that there is water in the freezer, in the fruit on the table and in the indoor and outdoor plants.*

Have the pupils write down each of their observations and ideas about water usage onto water-droplet shaped pieces of paper (FE 4.3). Display these as if they're tumbling out of an image of a tap (FE 4.2). *A tap image is provided which can be copied onto an A3 sheet or expanded using a projected image and drawn around.* The droplets should be illustrated and coloured.

Explain to the pupils that they are going to place the most important usages of water (e.g. to drink) closest to the tap and place the fun uses further away (e.g. to swim in). When the display is complete ensure that the pupils are happy with the positioning of their statements.

Ask if they are surprised by the variety of uses water is put to and reveal the correct answer for their water usage.

#### Plenary



Show the children the 'Water around the world' PowerPoint from the 'Water Aid' website. The children should see that water is even more precious and certainly not as abundant in other parts of the world.

Refer back to the litre bottle of water. Ask the class to estimate water usage in a developing country. It's about 20 litres per person per day!

Have the children play an appropriate game from the site below. This will help to emphasise our waste of water and how we can conserve it. Some of the games may be played on the interactive white board as a class activity.

<http://wateruseitwisely.com/kids/>

## Lesson 4 *continued*

### WATER, WATER EVERYWHERE?

#### Assessment for learning



The 'Diamond 9' activity at the start of the lesson is an excellent way to assess learning. The pupils may wish to rearrange some of their initial ideas by the end of the lesson.

#### Extension activity



We've only looked at water as a resource in this lesson. The topic of water is enormous and can be studied in numerous ways. Even starting at the Water Aid website is a series of lessons in itself. Simple extension activities, however, may be to keep a water usage diary for a week or to mark on a map areas of the world where water is in short supply.

<http://www.wateraid.org/uk/audience/schools#/teaching-materials>