Educator Guide

Water Fun

Grade R-3

Water is becoming a scare commodity that needs be protected. Children also love to play with water so why not combine the two? Get your learners playing for understanding so that they can better conserve our precious resource.

Some terms to remember:

Soluble- dissolves in water

Insoluble- does not dissolve in water

Solution- a mixture made when a substance dissolves in another substance

Solvent – able to dissolve other substances

Activities

1) Solve the Dissolve

Materials: clear jars, water, salt, sugar, sand, spoons, oil, food colouring

Instructions:

1. Half fill several clear jars with water.
2. Let a learner choose a substance to add to the water.
3. They must first guess if it will dissolve in the water.
4. Observe what happens with the substance- did it disappear or DISSOLVE or did it remain visible in the water?
5. Repeat with the other substances.

2) Oil and Water

Materials: jar, food colouring, oil, water

Instructions:

1. Add some water to the jar.
2. Add a few drops of food colouring.
3. Add a few drops of oil to the water and food colouring.
4. Observe
5. Ask the learners to describe the mix- does the oil dissolve, what does it look like?

Educator Hint: Oil does not mix with water because it is less dense, it "floats" on water.

3) A Skittle Rainbow

Materials: white plate, a bag of skittles, water

Instructions:

1. Place some skittles around the white plate.

2. Your learners can choose how they would like to display them.
3. Slowly pour some water over the skittles
4. Watch what happens…

Educator hint: Some parts of the skittles are soluble in water.

https://www.pre-kpages.com/easy-science-experiments-for-class-or-home/

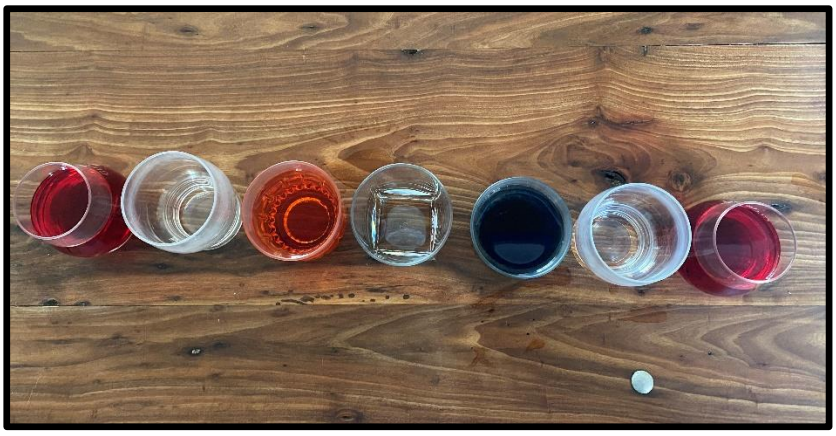
4) Walking water

Materials: seven, small clear plastic/glass cups, paper towel, food colouring (red, yellow, blue) water

Instructions:

1. Line up your cups in a row
2. Label them 1 through 7
3. 3/4 fill cups 1,3,5 and 7

4. Add 5 drops of red food colouring to cup 1 and 7.
5. Add 5 drops of yellow food colouring to cup 3.
6. Add 5 drops of blue food colouring to cup 5.



7. Cut your paper towel into strips 5cm wide an around 20cm long.
8. Place one end of the paper towel into cup one and the other side into cup 2, repeat until all cups are connected.

9. Get your learners to predict what they think will happen.
10. Watch what happens to the water.

Educator Hint: The water moves through the paper towel and into the other cup through a process called capillary action.

Additional Resources:

https://funlearningforkids.com/rainbow-walking-water-science-experiment-kids/

https://www.scienceexplorers.com/walking-water-experiment-for-kids#:~:text=The%20Rainbow%20Walking%20Water%20Experiment%20For%20Kids&text=Place%20seven%20cups%20two%20inches,coloring%20to%20the%203rd%20cup.