





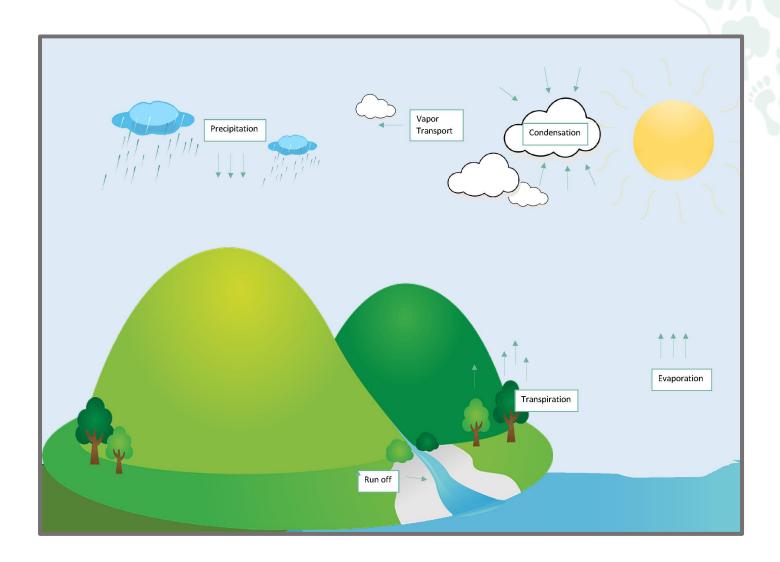






Background information

Water is one of the most important natural resources on Earth and we must learn to protect it. It is important to understand how water goes in a cycle and even after we have used it, the water continues its journey around the circle. Through learning about the water cycle pupils will also start to understand what clouds are, how trees are involved in the process and how humans have the power to disrupt the whole process.



Climate perspective

Although water flows in a cycle there is a delicate balance, and it is important that humans do not misuse water as this can upset the cycle. By using too much water from one area it can cause drought in that area. When water flows through our sewer systems it takes energy to convert it back into clean water so that it can be reintroduced to the cycle. We know that overuse

of energy is one of the main causes of climate change which in turn is having an effect on the water cycle by raising the sea level. This one of the factors in causing extreme weather events including flooding. It is important that children understand the water cycle and their role in conserving water.

Water cycle jigsaw and Tai Chi Lower KS2

These two activities together will help the children to piece together the cycle the water goes on without our assistance. The jigsaw gives them the opportunity to work in teams to literally piece it all together and look at the terminology used. The 'Tai Chi' brings in more movement and takes them through the cycle step by step. By bringing in whole body movements as well as saying the words, they will find it easier to remember the different stages and the terminology associated.

Materials needed

Water cycle diagram cut into pieces for a jigsaw.



Step 1

Water cycle jigsaw

Depending on numbers of children this works well in teams with the jigsaw pieces colour coded so the teams are finding their own pieces and can decide whether to help others if they find a different team's piece.

Before the session cut the supplied water cycle diagram into small pieces and hide them around the outdoor area.

Step 2

Introduce the session and explain to the children that they must work together to collect the pieces and put the jigsaw together. As they find the pieces, they can begin to piece the jigsaw together and discover the different elements of the water cycle.



Step 3

Talk through the different stages to ensure everyone understands how it works.

Step 4

















Water Cycle Tai Chi

Tai Chi is a combination of breathing, relaxation and flowing movements. In this activity we have combined elements of the water cycle with our own take on Tai Chi . Using the whole body will help the children to remember and understand the different processes including the scientific terminology such as precipitation and condensation

- 1. Ask all the children to stand in a space and take a deep breath.
- 2. Stretch up their right arms and spread their fingers like the rays of the sun "Sun".
- 3. Move the right down across the body "the sun shines on the water".
- 4. Move arms across the body keeping the hands low and using the fingers like ripples on the waves.
- 5. Begin to raise the outstretched arms on either side of the body wiggling the fingers "the warm water begins to evaporate".
- 6. At the top of the circle bring the arms back down quickly to form a cloud shape and at the same time raise one leg (this causes entertainment as everyone tries not to fall over!) "As the warm air cools the water particles form a cloud, this is condensation".
- 7. Move arms out to the right (the cloud moving over land) "As the cloud moves over the land it becomes denser and heavier".
- 8. Lower the arms down wriggling fingers to show the rain falling "the water falls as rain, this is precipitation".
- 9. Use the fingers and hands to show the river flowing across the body "as the water gathers on the land it flows into streams and rivers"
- 10. Stretch the arms to the left side of the body and move them apart "the rivers flow across the land and out into the sea"

Repeat this sequence several times until the children have got the hang of it.

Curriculum Links

Area of Learning and Experience - Humanities

Statement of What Matters:

Human societies are complex and diverse, and shaped by human actions and beliefs.

Area of Learning and Experience - Science and Technology

Statement of What Matters:

The world around us is full of living things which depend on each other for survival.

Next steps and other ideas

- Investigate what happens to waste water once we have used it and how it is cleaned.
- Research places in the world that do not have access to clean water. How do they manage? What can be done to help?

Useful Websites

https://corporate.dwrcymru.com/en/community/education/teaching-resources/primary-resources/wastewater

https://www.wateraid.org/uk/publications/the-water-cycle-lesson-plans

