

Drinking water lesson

Learning objectives:

- To construct a water filter
- To choose the most effective filtering material
- To experiment with layers of filtering material
- To explain their choices for the type of filtering material chosen
- To understand that just because the water is clear it is not necessarily safe to drink
- To record the filtering process in labelled diagrams

Links to the curriculum

The Nature of Science

Understanding about Science

Levels 1 and 2

- Appreciate that scientists ask questions about our world that lead to investigations and that open-mindedness is important because there may be more than one explanation.

Levels 3 and 4

- Appreciate that science is a way of explaining the world and that science knowledge changes over time
- Identify ways in which scientists work together and provide evidence to support their ideas

Investigating in Science

Levels 1 and 2

- Extend their experiences and personal explanations of the natural world through exploration, play, asking questions and discussing simple models

Levels 3 and 4

- Build on prior experiences, working together to share and examine their own and others' knowledge
- Ask questions, find evidence, explore simple models and carry out appropriate investigations to develop simple explanations

Communicating in Science

Levels 1 and 2

- Build their language and develop their understandings of the many ways the natural world can be represented

Levels 3 and 4

- Begin to use a range of scientific symbols, conventions and vocabulary
- Engage with a range of science texts and begin to question the purposes for which these texts are constructed

Participating and contributing

Levels 1 and 2

- Explore and act on issues and questions that link their science learning to their daily living

Levels 3 and 4

- Use their growing science knowledge when considering issues of concern to them

- Explore various aspects of an issue and make decisions about possible actions

Material World

Chemistry and Society

Level 2

- Find out about the uses of common materials and relate these to their observed properties

Levels 3 and 4

- Relate the observed characteristic chemical and physical properties of a range of different materials to technological uses and natural processes

Living World

Life Processes

Levels 1 and 2

- Recognise that all living things have certain requirements so they can stay alive

Levels 3 and 4

- Recognise that there are life processes common to all living things and that these occur in different ways