

## Key threads

Chemistry	Working scientifically
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Whole-school definition of science

**Science** is a way to understand our world by carefully thinking about it and testing our guesses with observations and experiments.

### Enquiry

They learn that certain solids dissolve while others do not, and how these dissolved solids might be retrieved from a mixture. They explore how the rate at which solids dissolve can vary, investigating variables that might make a difference.

### Working scientifically

When working scientifically, children plan different types of enquiries to answer questions, recognising and controlling variables where necessary. They will use a range of science equipment with increasing accuracy and precision, and use a variety of ways to report and present their findings to an audience

## Marvelous mixtures

### New Knowledge (what we are going to learn)

- Separate mixtures through filtering, sieving and evaporating.
- Taking measurements with increasing accuracy and precision.
- Some materials will dissolve in liquid to form a solution and describe how to reverse a change.



### Prior knowledge (what we all ready know)

As part of the Year 4 module children compared and grouped materials according to whether they were solids, liquids or gases and learned about changes of state that take place when materials are heated or cooled

### New vocabulary and definition

Evaporate

Filter

Dissolve

Reversible

Non-reversible

Suspension

### Useful vocabulary

material, compare, contrast, separate, mixture, sieve, filter, evaporate, solid, liquid, gas, powder, particle, dissolve, soluble, solution, contamination, contaminate, contaminated, impurity, pure, purity, suspension, saturated, saturation, reversible, non-reversible, microbes, bacteria, types of oil, liquid, solid, detergent, sticky, mechanical, boom, residue, environment, biological, marine life, purify, drinkable, sterilise