Wednesday 13th July 2021 WALT: Plan a fair test

Vocabulary:
solution
solute
solvent
dissolve
soluble
insoluble
hypothesis
fair test

Prior learning:

What does it mean to be a scientist?

What are the definitions of **insoluble** and **soluble**?

I am a scientist...

I want to explain the world around me.

I question everything. How?

What?

Why?

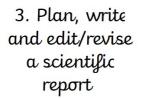


I make a **prediction**.

I investigate then use what I find out to explain.

I change my mind after finding things out.

Learning Journey





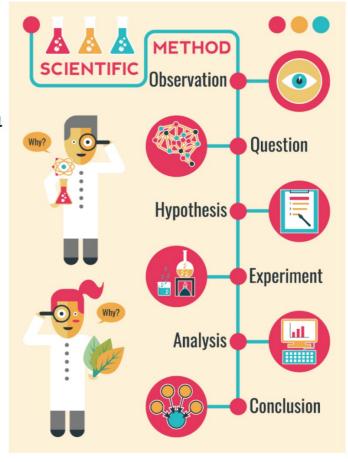


1. Plan a new fair test by changing an independent variabe



2. Conduct a fair test and record the results We have conducted an investigation to discover whether different materials are **soluble** or **insoluble** in water and written our results into a scientific report.

As scientists, we are going to conduct another fair test, and investigate whether changing an independent variable will effect the results of our investigation



As scientists, how do we keep our investigation a fair test?



How many variables will we change each time:

Let's recap our last experiment

The aim of the investigation is to determine whether all materials are soluble.
To ensure the test is fair, there are a number of controlled variables. The amount of water the material is stirred into is always ml. The amount of material is always The number of times the material is stirred into the water will always be
The independent variable that will be deliberately changed each time is
The dependent we are measuring is whether the material will dissolve in the water or not.

We are still investigating whether different materials are soluble or insoluble in liquid

But we are going to be changing our independent variable to see how that affects our results.

What independent variable could we change instead of the materials we are mixing with the water?



Today we will be planning the first 5 parts of our scientific report.

Will much change from our plan for the origina experiment?



Title of expe	riment:	1		
Purpose/Int	roduction:			
		2	2.	
Hypothesis		3	3.	
Materials		4	+.	
Method		5	5.	
Results				
Discussion				
Conclusion				

Title:

Written as a class

Introduction:

Full sentence written as a class. Why are we investigating this?

Hypothesis:

What do you predict will happen? Why?

Materials:

What will we need?

Method:

How will the investigation take place?
How will we ensure it is a fair test? Which variables need to be the same each time?

Title of experime	nt:	
Purpose/Introdu	ction:	
Hypothesis		
Materials		
Method		
Results Discussion	These parts will be planned after we have conducted our experiment!	

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