

What's the difference?

Approach: Station

Level: Year 8 & year 4

Resources: 5 wine beakers; jug of water; spoon; spatulas; clock; orange drink powder; vinegar; salt; cooking oil; rice; laminated chart.

Questions/instructions

In this activity you will be sorting some things you would find in a kitchen. You will be sorting them by how they are the same or different.

1. You have some things from a kitchen in front of you.

Tick the boxes in the chart to show if they are solids or liquids.

All correct

Substance	Solid	Liquid
Oil		
Rice		
Orange Drink Mix		
Salt		
Vinegar		

% responses

	year 8	year 4
All correct	77	54
All correct	75	53
All correct	31	6

2. Sort the kitchen things into groups of solids and liquids.

All correct

Write the groups of things here.

Solids:

Liquids:

Now you can test for something else that could be different about these kitchen substances.

Add a little water to each cup. Stir each cup with a clean spatula. Wait for 1 minute. If the substance mixes into the water and doesn't separate out again, it has made a solution.

3. Tick the boxes on the chart to show if the kitchen substances can be made into solutions

All correct

Substance	Makes a Solution	Does not make a solution
Oil		
Rice		
Orange Drink Mix		
Salt		
Vinegar		