

Experiment: To explore what happens when different liquids are mixed together.

Method: Measure the same amount (volume) of different liquids into a glass container and see what happens.

Prediction: I think some will and some will ^{not} separate.

I think the syrup and the honey will go to the bottom and I think the oil will float on the top.

Substance	What happened?
1. oil	The oil formed a layer at the top
2. Milk	
3. coloured water	The coloured ^{water} mixed with the milk.
4. honey	The honey sunk to the bottom.
5. Syrup	mixed with the honey and stayed at the bottom

We stirred all the substances together and left for 30 minutes. I think they will separate back into layers.

Results

1. The oil quickly floated to the top.
2. A very thin layer of syrup/honey slowly formed at the bottom.
3. The milk and the water remained mixed in the middle.

Extension add washing up liquid to see if it changes the mixture

2 results

1. The washing up liquid sank below the oil and above the water and milk mixture

We decided to mix up the liquids to see what happens.

Results

All the layers have disappeared there are a few bits of oil still on the top

Density: Definition

Density is the relationship between the mass (weight) of the substance and the space it takes up (volume).