

Lab Tots Report Card



Session Venue & Time: Hartsfield JMI - KS1

Lab Tots Term: Spring Term 2019

Instructor: Sophia Mitchell

Session Dates: 26th March 2019

What We Did & What We Learnt:

Crazy Chemistry - Silly states of matter

- We revisited mixtures from last session and discussed how now all things did mix
- We looked at Oil / fat and water and how these 2 liquids do not mix and are immiscible and will unmix if we try to mix them together
- We discussed how soap was used to help remove oil and grease
- We looked at the milk, that contains some fat as well as being mostly water.
- We discussed and observed how milk seemed to be a stable mixture, it was white and opaque
- We also looked at the viscosity / thickness of these liquids
- We discussed how soap works and we did a 'magic milk' experiment to show the molecules moving when soap was added, joining up some of the oil and water molecules
- We also created anti-bubbles as part of our magic milk observations
- We looked at different states of matter - Solid, Liquid & Gas
- We looked at some different examples of forces - magnetic, static & gravity
- We looked at how the forces between the atoms or molecules hold the substance in a set way and how to change the state, we need to change the amount of energy to overcome the forces
- We used different models to show how materials change state, using solid ice, liquid water and water vapour as a common example
- We looked at fluid dynamics, how gases move using smoke machines to make the gas visible
- We played the solid, liquid, gas game where we became the molecules and changed phase when energy was added (heated up) or removed (cooled)