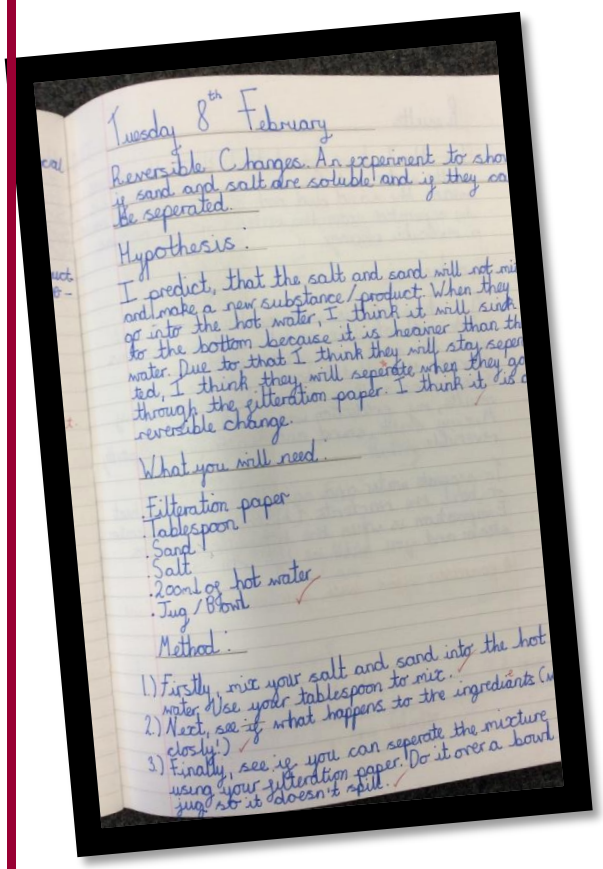
BLACKROD PRIMARY SCHOOL

Project Reflection – Spring 1

Science – Reversible and Irreversible Changes/ Separating Mixtures

Reversible and Irreversible Changes

We completed a variety of experiments and explored whether they were reversible or irreversible. We mixed milk with vinegar and this made a new substance called Casein plastic it was an irreversible experiment.


Tuesday 8th February

Reversible Changes. An experiment to sho
if sand and salt are soluble and if they ca
be seperated.

Hypothesis:

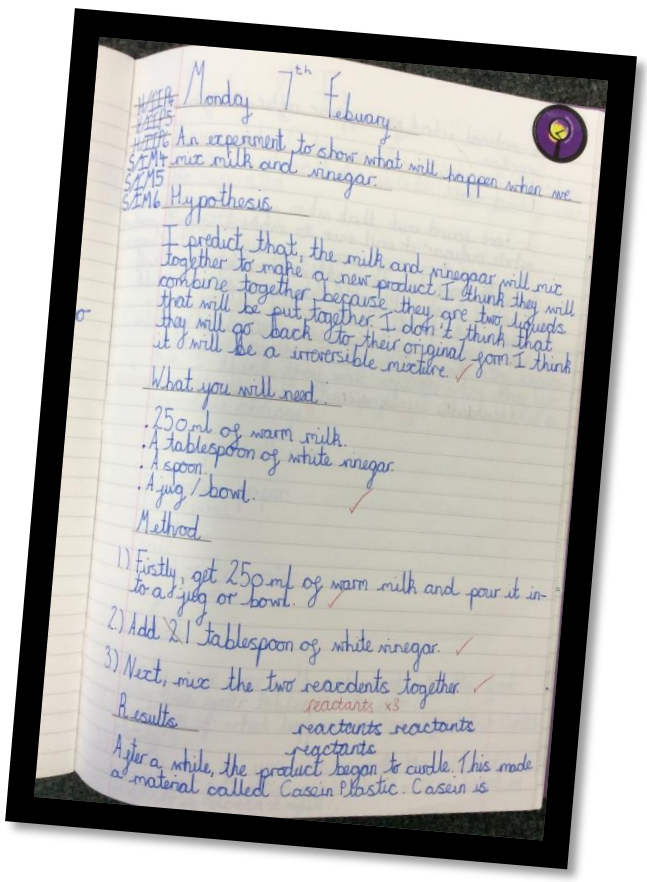
I predict, that the salt and sand will not mi
and make a new substance/product. When they
of into the hot water, I think it will sink
to the bottom because it is heavier than th
water. Due to that I think they will stay seper
ted, I think they will seperate when they go
through the filteration paper. I think it is a
reversible change.

What you will need:

.Filteration paper
.Tablespoon
.Sand
.Salt
.200ml of hot water
.Jug / Bowl

Method:

1.) Firstly, mix your salt and sand into the hot water. Use your tablespoon to mix.
2.) Next, see if what happens to the ingrediants (a closly.)
3.) Finally, see if you can seperate the mixture using your filteration paper. Do it over a bowl/jug so it doesn't spill.


Monday 7th February

An experiment to show what will happen when mix milk and vinegar.

Hypothesis

I predict that, the milk and vinegar will mix together to make a new product. I think they will combine together because they are two liquids that will be put together. I don't think that they will go back to their original form. I think it will be a irreversible mixture.

What you will need

.250ml of warm milk
.A tablespoon of white vinegar
.A spoon
.A jug / bowl.

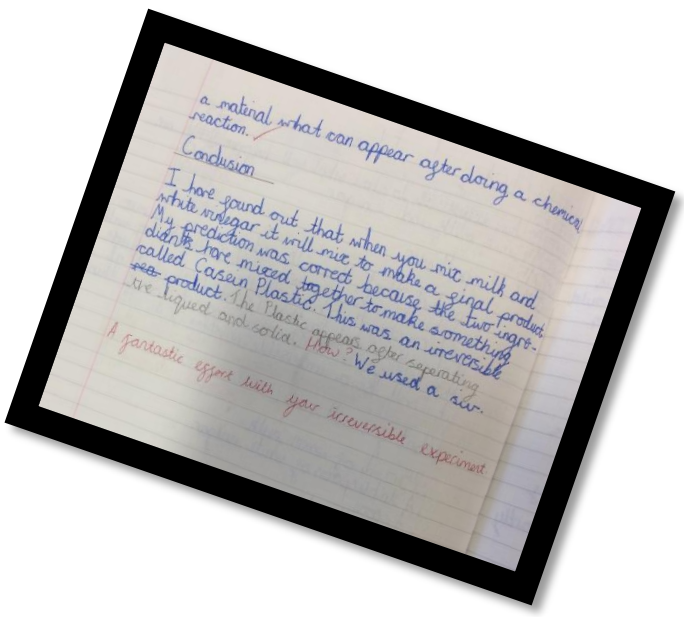
Method

1.) Firstly, get 250ml of warm milk and pour it into a jug or bowl.
2.) Add 2 tablespoon of white vinegar.
3.) Next, mix the two reacdents together.

Results

reactants x3
reactants reactants reactants

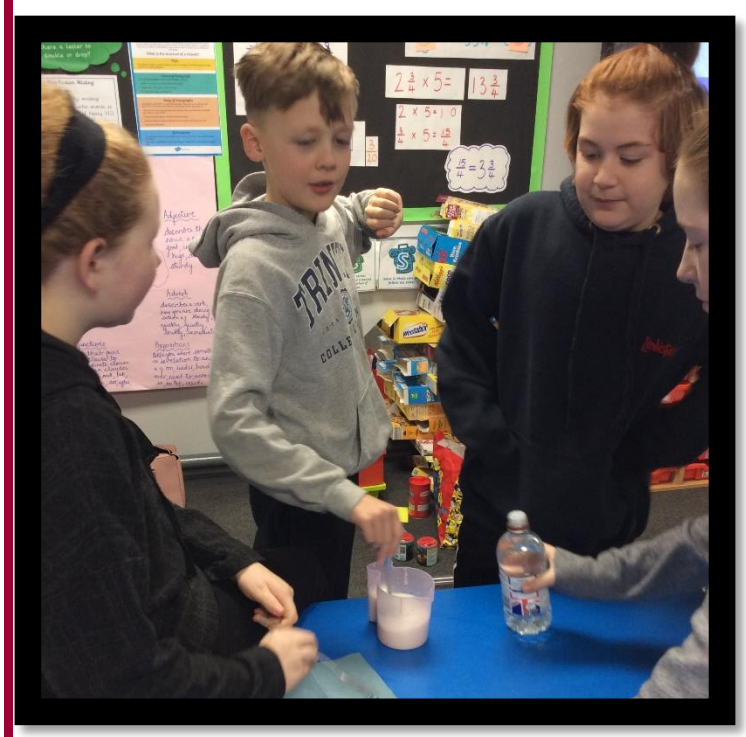
After a while, the product began to curdle. This made a material called Casein Plastic. Casein is


a material what can appear after doing a chemical reaction.

Conclusion

I have found out that when you mix milk and white vinegar it will mix to make a legal product. My prediction was correct because the two ingredients have mixed together to make something called Casein Plastic. This was an irreversible product. The Plastic appears after separating the liquid and solid. How? We used a sie.

A fantastic effort with your irreversible experiment



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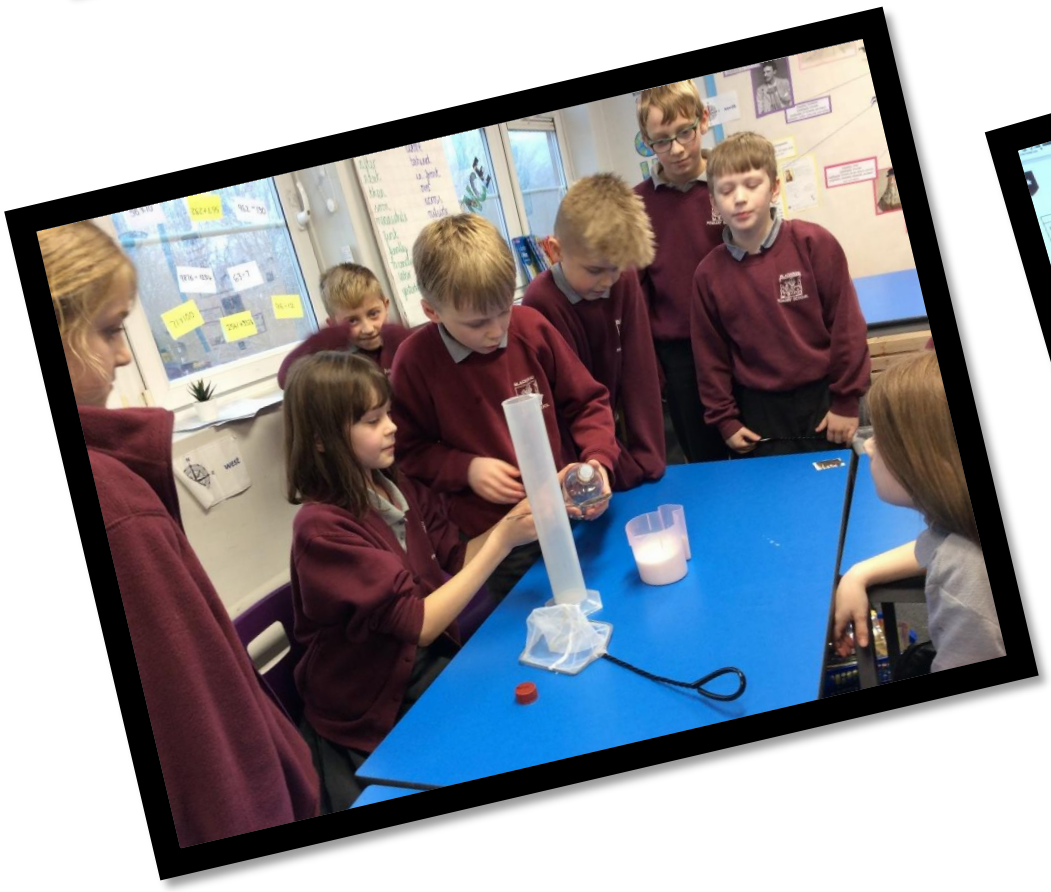

Home Learning Links

Chemical reactions in cooking food - KS2 Science - BBC Bitesize

What is dissolving? - BBC Bitesize

What is separation? - BBC Bitesize

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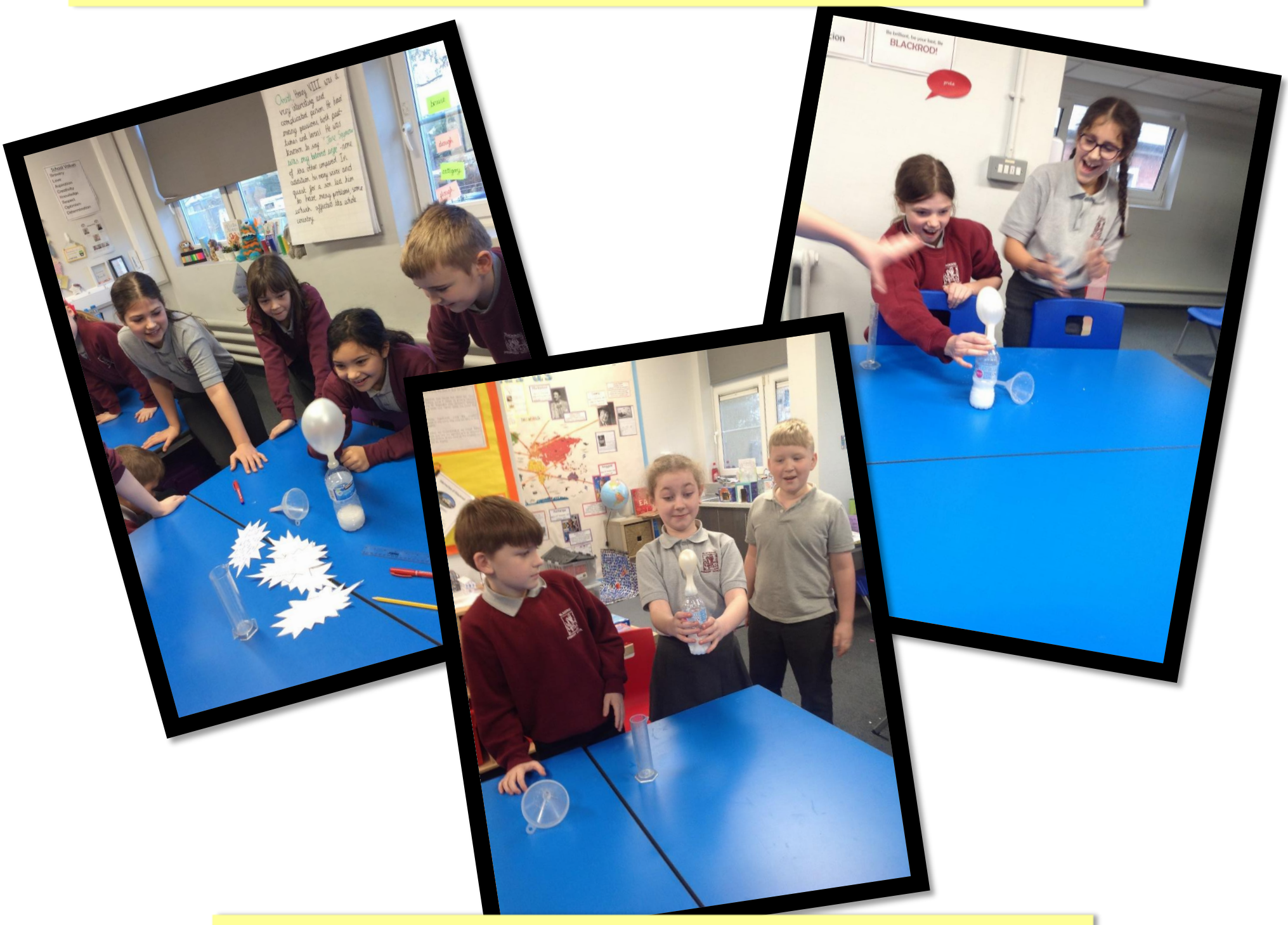
Reversible and Irreversible Changes

We then completed another irreversible experiment. We mixed Bicarbonate of Soda with Vinegar and a chemical reaction occurred creating a gas. This was an irreversible experiment.

We finally looked at reversible changes and experimented what would happen when we mix sand, salt and water together. We used filter paper to separate the sand from the water and then the salt was separated due to evaporation.



Key Vocabulary

Melt

Freeze
Solidify
Reversible
Irreversible
Chemical reactions

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Reversible and Irreversible Changes

Take a look at our Big Books full of our amazing Science work.