

# Science



## Kspace After School Science Class Acids/bases & Lemon Suds Eruptions!

Date: Nov.15, 2018

We wanted to go through some great new vocabulary today and also reiterate some previously learned words:

Acid

Citric

Soda

Lime/tangerine

Suds

Mix

Sprinkle

### Intro:

Today we had great fun in our science activity with a very messy, fizzy activity that helped demonstrate how acids react and about acids and bases.

### Content

Today's lesson was introduced by talking about different types of fruits and asking the children to describe the taste. Some fruits like bananas are very sweet, while others like lemons are very very sour. I explained that most sour tasting foods are "acidic" and most bitter tasting things are alkaline.

Without going into too much detail, I explained that lemon juice is like magic, and it's a great example of a natural acid. When mixed with something like baking soda as a base, they create a very special reaction.

Citric acid is a naturally occurring weak acid that is present in lemons, lime, oranges and tangerines. We talked about how sometimes these things can be sour and make our face screw up – or even if you eat too many your tongue can be a bit sore (or get white spots) because of the acid.

## Activity 1/Discussion

After going through materials list with the children I asked them what they thought would happen when we mix each of the 'chemicals' together. This was fun as they gave really good answers, and I was even able to explain that baking soda can be the fizzy stuff that they add to bath bombs to make them special!

Our materials were:

- clear hand soap
- food colouring (different colours)
- baking soda
- citric acid
- big containers for mixing
- paper bowls
- spoons

## Activity 2

We divided up and passed out the paper bowls, each with ingredients and 1 container.

The children had great fun mixing water and clear hand soap to make sudsy water. Some of them got a little bit over enthusiastic with the volume of soap they used and there was a lot of giggling going on!

Our little Scientists then mixed in the following order

- Added any colour they want with sudsy mix
- Added scoops of baking soda slowly
- Mixed well
- Added citric acid
- Watch the magic!

They really loved how it all bubbled up and made fabulous foamy shapes – some of them said 'it smells nice!' and we all agreed that we love to have nice warm baths!

We played around with the mix to continue to experience different reactions based on the amount of citric acid/lemon juice used.





