Science ideas 2!

Hi Everyone!

I hope you are all safe and well and enjoying this wonderful sunshine! I am currently sat writing this in my garden but can't see the screen so think I'll probably have to accept I need to work indoors!

I appreciate you won't be doing too much work as it is Easter, but I thought a few science experiments in the kitchen might keep you busy. Check out the following ideas:

Idea 1: Suitable for all year groups but may need some adult support as it involves boiling water on a hob!

https://edu.rsc.org/resources/classic-chemistry-experiments-chocolate-and-egg/441.article

I tried this experiment in school earlier today so we could discuss chemical reactions Vs physical changes. We talked about the idea of ice melting…. And that once it went from solid ice to liquid water, it was essentially still the same chemical…. H_2O! It was simply a different state. We can reverse it by letting it solidify of putting it in the freezer! We then talked about chemical reactions being different because something new is definitely made… and it's very hard to go back to the original reactants/ingredients again! You could try the experiment detailed at the website above… but will need to improvise, as you don't have the correct equipment… I'm sure you can be creative though… BUT YOU WILL NEED ADULT SUPPORT AND PERMISSION! Can you work out which is the chemical reaction and which is the physical change?

Idea 2: Especially good for year 8 as it relates to the acid and alkali topic you studied back in term 1, but no reason anyone can't have a go at this one!

https://littlebinsforlittlehands.com/red-cabbage-science-experiment-chemistry/

This involves making a red cabbage indicator and seeing the colours it turns in different household chemicals. Again, YOU MUST SEEK PARENTAL PERMISSION AND SUPPORT WITH THIS!

Idea 3: Simple but messy…. Great for year 5 and 6 but anyone who likes making things fizz!

https://www.instructables.com/id/The-vinegar-and-baking-soda-reaction-in-different-/

Try changing the conditions (temperature or volume) to work out the best reaction combination! Remember, this is an example of a chemical reaction because something new is being made….. carbon dioxide!

Idea 4: If you are lucky enough to have Disney+, then there is an awesome documentary called "one strange rock." It addresses the formation of the Earth, incorporating biology, chemistry and physics concepts from KS3. I have watched the first 5 or so episodes and I find it fascinating. Great for year 7 and 8 students.

Remember…. There were other practical ideas in "science ideas 1" which is now archived in each year groups folder on the website.

Any work you do… or experiments you try… send me a photo!!

Speak soon and take care of yourselves,

Mrs Wright