C3 Quantitative: Learning Journey

What are we learning about?

In this topic we are going to look at quantitative chemistry – the calculations involved in chemistry. We will be learning about ways that mathematical calculations can be applied in chemistry.

Why are we learning about it?

It is a very important area of chemistry as it enables chemists to calculate known quantities of chemicals from reactions. This is particularly important in industries such as pharmaceuticals and medicines, food and drink production and even forensics.

What new **KNOWLEDGE** will I gain?

You will be learning about calculating relative masses of compounds, errors and uncertainties in, practical methods and calculating percentage yields of substances.

How does this build on the **KNOWLEDGE** I already have?

In KS3 you will have looked at conservation of mass and how mass is neither created or destroyed. This is the basis of quantitivate chemistry. In C1 atomic structure you began looking at atomic mass of elements and you will build on this to look at the mass of compounds.

What new **SKILLS** will I develop?

There are a lot of maths skills in this topic, including simple multiplication and calculating. It will also involves some multiple step calculations. By the end of this topic you will have the skills to do all of them, helping you in science and in maths.

How does this build on the **SKILLS** I already have?

You can already use basic maths functions such as addition and multiplication – this topic will allow you to use these with a scientific application.