**IB CHEMISTRY SUMMER WORK 2023**

The Nature of Science (NOS) is an important theme that runs through all of the science subjects, it addresses the purpose, feature and impact of scientific knowledge.

One important Nature of Science questions is “How do we develop theories”?

The Theory of Knowledge (TOK) explores 12 concepts that underpin knowledge. In Chemistry we often have to use an element of *interpretation* and need to think carefully about the claims of *certainty* when gaining scientific knowledge.

A really important area of Chemistry that links to both NOS and TOK is our understanding of the Structure of the Atom and how over time as new evidence was obtained and interpreted theses theories changed.

**TASK**

Your summer work is to produce a mini lesson (10 minutes max) that looks at the History of the Structure of the Atom. You should be aiming to spend about 1hour 30 minutes on this.

You should include the following in your presentation/lesson:

* A timeline of the main scientists that developed theories regarding the structure of the atom.
* Information about their research and what evidence they produced.
* What where their interpretations of the evidence and therefore what was their theory and how did it change from the previous one.
* Any diagrams or images that will help to “teach” this.

**DO NOT:**

* Have large amounts of text on your slides that you simply read. – Your slides should only have key information that will support your explanations and presentation.

**ASSESSMENT:**

You will be assessed on the following:

* The content of your presentation – have you included all the key scientists and detail of their work
* Quality of slides – do your slides support your explanations, are they clear, easy to follow and not full of text.
* Quality of presentation, so you use a lot of eye contact, do you use your voice well, are your explanations clear.