

## Development of the Atomic Model Timeline Activity

During your study of chemistry, you have probably encountered an image of an atom that looks like this. You could tell me that the red circles represent electrons, the blue circles represent protons and that the green circles represent neutrons.

I am guessing, some of you might have even recognized that this is a representation of the element lithium.

But did you ever stop to wonder - how do we know what an atom looks like?



The truth is that the model of the atom we've always shown like this and as our technology and scientific knowledge developed, we see that our model of the atom

isn't, our current model of the atom looks a lot more like this -



To ask ourselves how do they know, we have to take a look back and see how this knowledge was developed over time.

The earliest mention of an atomic model began with Greek philosopher Democritus who started to wonder about how far you would get if you cut an object into smaller and smaller pieces. He concluded that you would eventually reach a point where you simply could not cut it further, and called this smallest piece of matter 'atomos' which means indivisible in Greek. Based on his observations of the world around him, he decided that these pieces of matter were small, indivisible and that they could not be separated into anything smaller.

His ideas were guesses, based only on physical observations of the world around him as he did not possess the technology to run any experiments and test his theories.

Unfortunately for Democritus, his ideas were considered ridiculous and it was not until 1808 when a man named John Dalton revived the idea of atoms. Through a series of experiments, he showed that compounds are made of elements in specific ratios that are only rearranged when forming new compounds.

Through these experiments, he concluded that,

- All matter is made up of tiny particles called atoms.
- Atoms are very small, solid balls of matter that cannot be broken down into anything smaller.
- Each atom of an element is made up of identical atoms that have the same mass, but atoms of other elements are different and have different masses.
- Compounds are made of atoms and during chemical reactions, atoms are rearranged to form new substances.

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## Timeline Activity 26

**Philip Clart, David Ownby, Chien-chuan Wang**

## **Timeline Activity 26:**

## Whispering the Techniques of Language: An Emotional Quest through **Timeline Activity 26**

In a digitally-driven earth where displays reign supreme and instant conversation drowns out the subtleties of language, the profound secrets and psychological subtleties concealed within phrases often move unheard. Yet, located within the pages of **Timeline Activity 26** a captivating fictional value pulsating with organic emotions, lies an extraordinary journey waiting to be undertaken. Published by an experienced wordsmith, this enchanting opus attracts readers on an introspective trip, gently unraveling the veiled truths and profound affect resonating within the material of each and every word. Within the mental depths of this moving review, we can embark upon a sincere exploration of the book's primary subjects, dissect their captivating publishing model, and fail to the powerful resonance it evokes heavy within the recesses of readers' hearts.

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