

Chemistry Induction Task: The Periodic Table

Periodic Table of the Elements

The image shows a standard periodic table of elements, color-coded by groups. It includes the title 'Periodic Table of the Elements' and the element symbols and atomic numbers for all elements from Hydrogen (H) to Oganesson (Og).

Key Skills

- Research
- Summarising
- Explaining
- Justifying

Your Task:

If your surname begins with...	Your chemist is....
A-E	Antoine Lavoisier
F-J	Johann Dobereiner
K-P	John Newlands
Q-U	Dmitri Mendeleev
V-Z	Henry Moseley

Research one of the following chemists and produce a PowerPoint to inform others about their contribution to the modern periodic table. You will need to include:

1. **Who were they?**
2. **How did they contribute** to our modern periodic table?
3. Which **experiments** did they do to provide evidence for their theories
4. What is your opinion on the **relevance of their contribution**
5. An explanation of **why the periodic table is important to everyone.**

NOTE: Your PowerPoint should be no longer than **8 slides** and must be **printed** (2 slides per page) for submission.

Your starting point:

The periodic table of the elements has gone through numerous revisions over the years as scientists have gained more knowledge about the atomic structure of the elements. The most recent version of the periodic table provides useful information that, directly or indirectly, affects everyone. The Royal Society of Chemistry have summarised a brief history, which you should read to obtain a clear timeline of events. <http://www.rsc.org/periodic-table/history/about>

How you will be assessed:

Grade A – Your work will include:

- A detailed description of who the scientist was, including: family background, education, key life events and reputation
- An explanation of how the scientist contributed to our understanding of the elements, including views of other chemists at the time
- A clear explanation of the experiments they carried out to support their theory
- An opinion about how relevant the contribution was making links to evidence and the modern periodic table
- An explanation of why the periodic table is important, giving examples and various viewpoints
- Excellent structure, spelling, punctuation and grammar
- All information clearly referenced

Grade C – Your work will include:

- A detailed description of who the scientist was
- An explanation of how the scientist contributed to our understanding of the elements
- Some detail about the experiments they carried out to support their theory
- An opinion about how relevant the contribution was making links to evidence
- An explanation of why the periodic table is important, giving examples
- Sound structure, spelling, punctuation and grammar
- Reference list

Grade E – Your work will include:

- A brief description of who the scientist was
- A brief explanation of their contribution to chemistry
- An unjustified opinion on the importance of their contribution
- A superficial explanation of why the periodic table is important
- Poor structure, spelling, punctuation and grammar