

# HNC @ HOME

## 2026



### A Level Chemistry – *Activity 3*

#### Influential Chemists

Conduct research on three influential chemists, exploring their contributions to the field of Chemistry and examining how their work aligns with or demonstrates the fundamental British values of democracy, rule of law, individual liberty, and mutual respect and tolerance for those with different faiths and beliefs.



Create a presentation with a format of your choosing – PowerPoint, poster, report, etc., on your researched Chemists. Use reputable, reliable sources such as academic journals, biographies, or educational websites to support your findings (if you wish to, you can start practising referencing your work).

What you need to do:

1. Select Your Chemists:

Choose three influential chemists from any era, focusing on those with significant contributions to Chemistry. Consider diversity in terms of historical periods, geographical regions, and areas of expertise within Chemistry. Provide a brief biography for each chemist, including their background, education, and key achievements.

2. Research Their Contributions to Chemistry:

Describe the major discoveries, theories, or innovations for which each chemist is known. Consider the context in which they made their contributions, such as the scientific beliefs of the time or significant events. Explain the broader impact of their work on science and society. For example, consider how their findings influenced other areas of research, industry, or even public health.

3. Try to integrate Fundamental British Values:

*Democracy:*

Explore whether the chemists' work or personal views contributed to democratic ideals. Did their discoveries lead to more open scientific collaboration or the spread of knowledge?

*Rule of Law:*

Examine if the chemists' work contributed to ethical practices in science or emphasised the importance of laws and regulations in research. Consider their involvement in developing scientific standards.

*Individual Liberty:*

Assess whether their contributions promoted individual freedom or expanded opportunities for personal growth. Did their work empower individuals, broaden educational opportunities, or improve conditions in society?

*Mutual Respect and Tolerance:*

Look into whether the chemists demonstrated or promoted tolerance and respect towards those with different backgrounds or beliefs. Consider whether their work fostered greater inclusivity or cross-cultural collaboration.

Have fun working through these tasks - hopefully they'll expand your knowledge and interest in Chemistry. Have a wonderful Summer and see you soon!