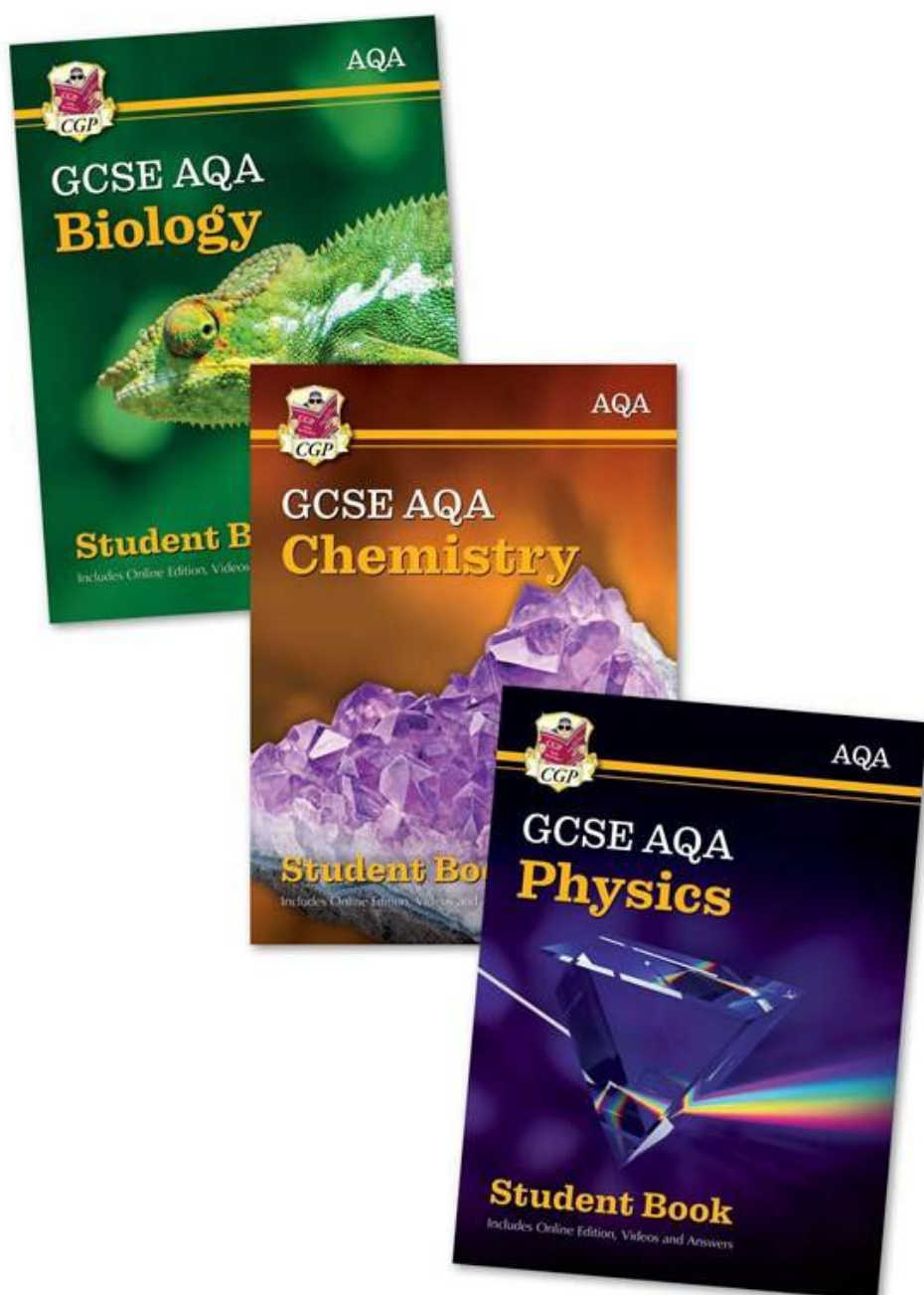


Y9 Transition Booklet

GCSE AQA Science



Research Task 1:

Research task.

Create a biography of one of the following famous scientists. You should describe their background, personal life and any notable discoveries they may have made to science.

Your biography may either be a written account or a PowerPoint presentation summarising their lives.

Space has been provided on the next page for written accounts.

Choose one of the famous scientists below:

Charles Darwin
Rosalind Franklin
Alfred Nobel
Fritz Haber
Isaac Newton
Marie Curie

Useful links to get started:

Charles Darwin:

<https://www.nhm.ac.uk/discover/charles-darwin-most-famous-biologist.html#:~:text=Born%20in%201809%20in%20Shrewsbury,home%2C%20collecting%20plants%20and%20insects.>

Rosalind Franklin:

<https://www.rfi.ac.uk/about/rosalind-franklin/>

Alfred Nobel:

<https://www.biography.com/inventors/a45977855/alfred-nobel>

Fritz Haber:

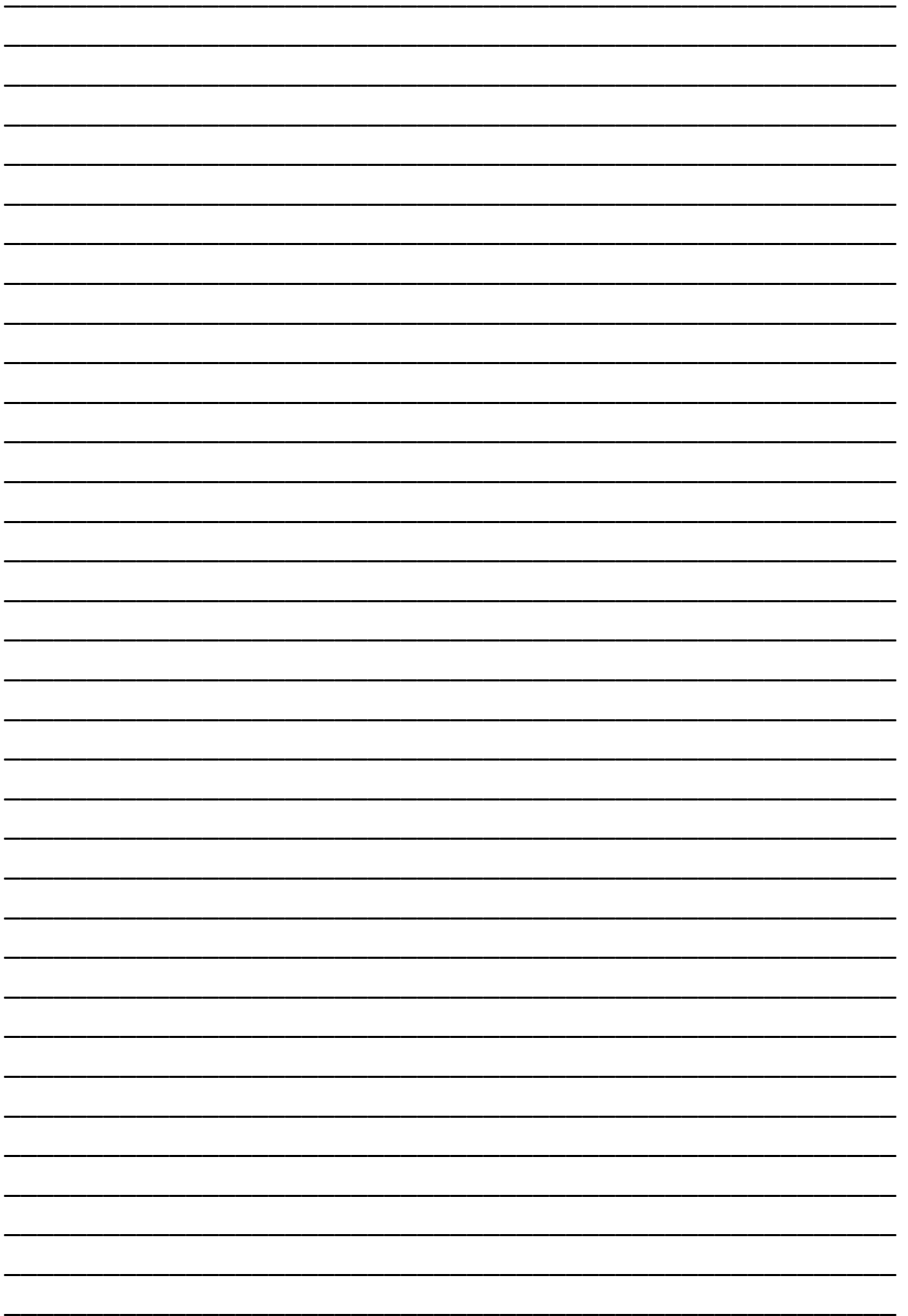
<https://www.sciencehistory.org/education/scientific-biographies/fritz-haber/>

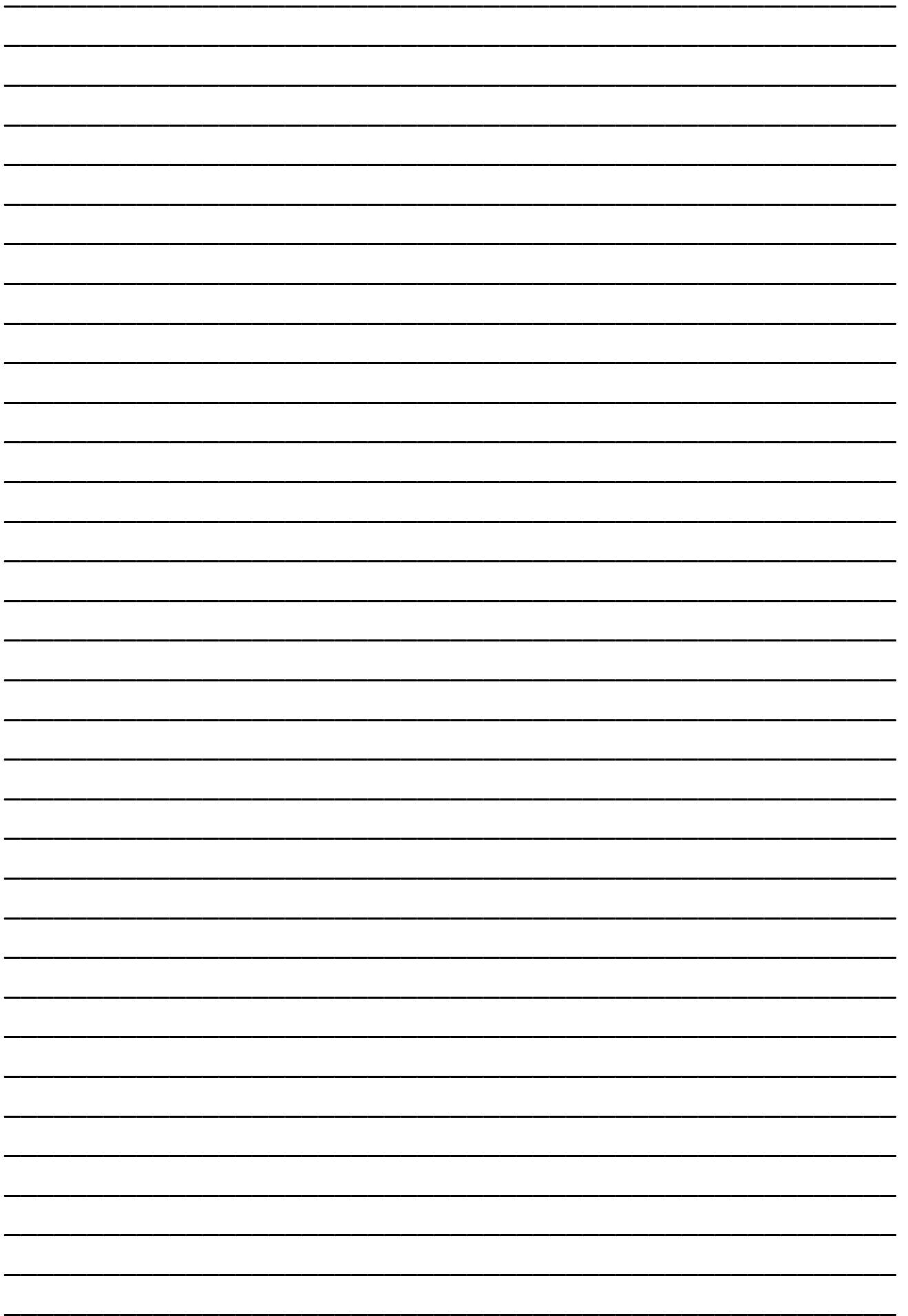
Isaac Newton:

<https://www.newton.ac.uk/about/isaac-newton/isaac-newtons-life/>

Marie Curie:

<https://www.smithsonianmag.com/history/madame-curies-passion-74183598/>





Research Task 2:

Research task.

Research one of the topics below. Consider describing the science behind the theory and the effects that each may have. This could take the form of a written summary outlining your research or a PowerPoint presentation.

Space has been provided on the next page if needed.

Feel free to conduct your own research using alternative sources (e.g- internet, videos, books, articles)

Choose one of the topics below:

(Biology) Evaluate the potential risks and benefits of gene editing in humans.

(Biology) Describe how our understanding of germ theory has changed over time.

(Chemistry) Describe nanomaterials and how might they be used.

(Chemistry) Describe how our understanding of atoms has changed over time.

(Physics) Explain how particle accelerators work and describe what they have discovered..

(Physics) Describe the properties of black holes and explain how they might form.

Useful links to get started

Gene editing:

https://www.who.int/health-topics/human-genome-editing#tab=tab_1

<https://www.genome.gov/about-genomics/policy-issues/Genome-Editing/ethical-concerns>

History of germ theory:

https://www.worldhistory.org/Germ_Theory/

<https://www.bbc.co.uk/bitesize/guides/zxbqjsg/revision/2>

Nanomaterials:

https://www.hsa.ie/eng/your_industry/chemicals/legislation_enforcement/nanomaterials/

<https://edu.rsc.org/feature/the-many-uses-of-nanomaterials/4018218.article>

History of the atom:

<https://www.compoundchem.com/2016/10/13/atomicmodels/>

<https://www.science-sparks.com/a-brief-history-of-the-atom/>

Particle accelerators:

<https://www.iaea.org/newscenter/news/what-are-particle-accelerators>

<https://www.britannica.com/technology/particle-accelerator>

Black holes:

<https://www.nasa.gov/universe/what-are-black-holes/>

<https://news.uchicago.edu/explainer/black-holes-explained>

