

LO: I can explain some of the significant discoveries and studies which were led by early Islamic scholars and evaluate the impact they made on the wider world.

Recap - Think about the answers to these questions:

What was the House of Wisdom?

Why was it a significant place?

### **Invention and Discovery**

Muslim scholars from the early Islamic civilisation are responsible for the discovery and development of a wide range of inventions that we now take for granted in our daily lives.

Work made by these early pioneers preceded work of European scholars in many fields and was fundamental in leading the Renaissance in Europe which began in the 14<sup>th</sup> century - several centuries behind the 'Golden Age of Islam'.

### **Muhammad ibn Zakariya Razi**

Muhammad ibn Zakariya Razi was born in AD 854. He made a significant contribution to the history of medicine.

He worked out the difference between smallpox and measles and how best to treat them.

He was among the first doctors to study body fluids to distinguish between different diseases.

He was influential in the study of eyes and the treatment of eye conditions.

He is regarded as 'the father of paediatrics' due to his acknowledgement that children need to be treated differently to adults.

He understood and promoted the need for good doctor/patient relationships and challenged those selling fake medicines.



### **Abu al-Qasim Khalaf ibnal-Abbas Al-Zahrawi**

Al-Zahrawi was born in AD 936. He is regarded as 'the father of surgery' for his ground-breaking development of surgical techniques and the invention of numerous surgical tools.

He developed the technique of cauterisation which involves burning an area of flesh, inside or outside the body, to stop bleeding or infection and to help cure a range of diseases.

He invented forceps, which are still use in assisting childbirth.



He wrote the book *Al-Tasrif* which was used by European doctors as a reference guide for approximately 500 years after it was finished in AD 1000.

He developed the use of catgut in stitches.

He discovered that some diseases can be hereditary (passed down to children by their parents).

**TASK:**

I would like you to choose either Muhammad ibn Zakariya Razi or Al-Zahrawi and explain what discoveries they made. I would then like you to explore how this has made an impact on the world. You can draw pictures of them and their discoveries too if you want to.