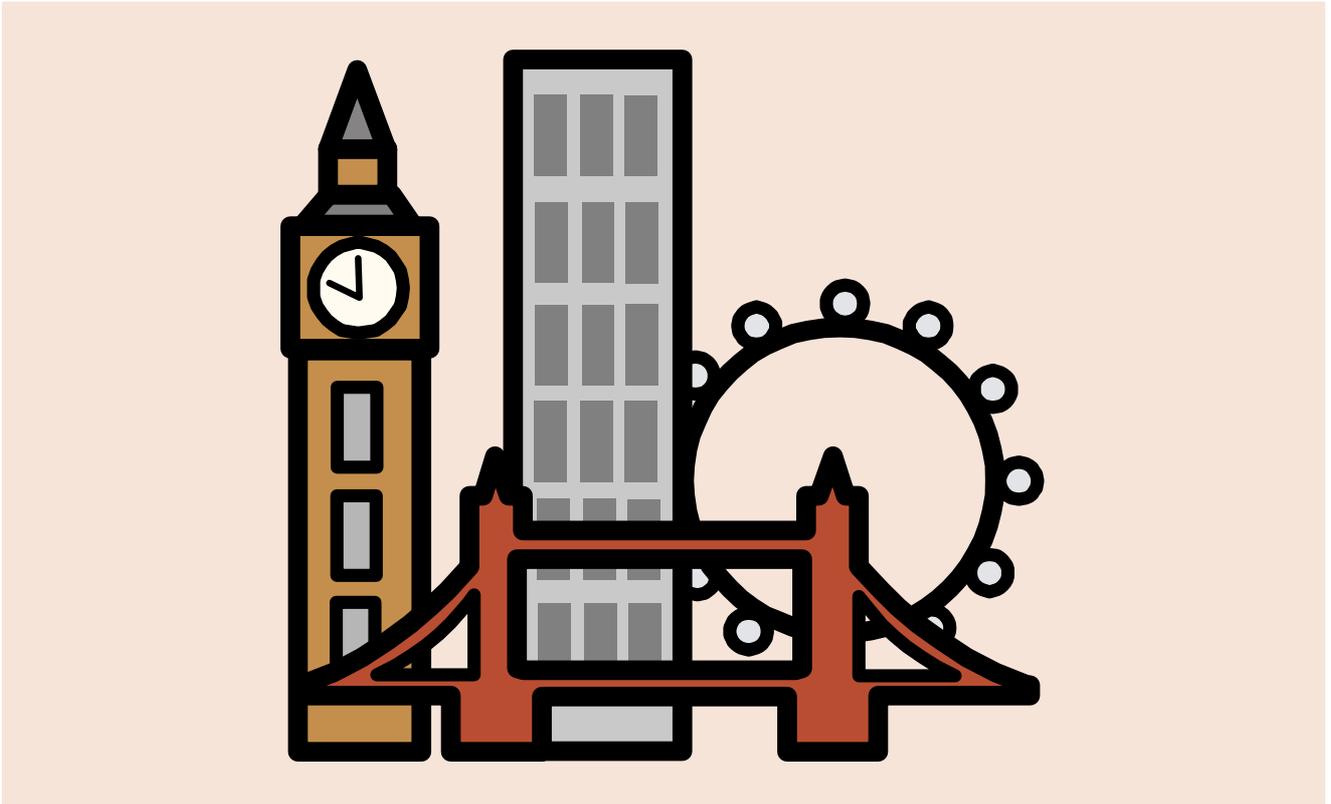




Rosalind Franklin

Text Book



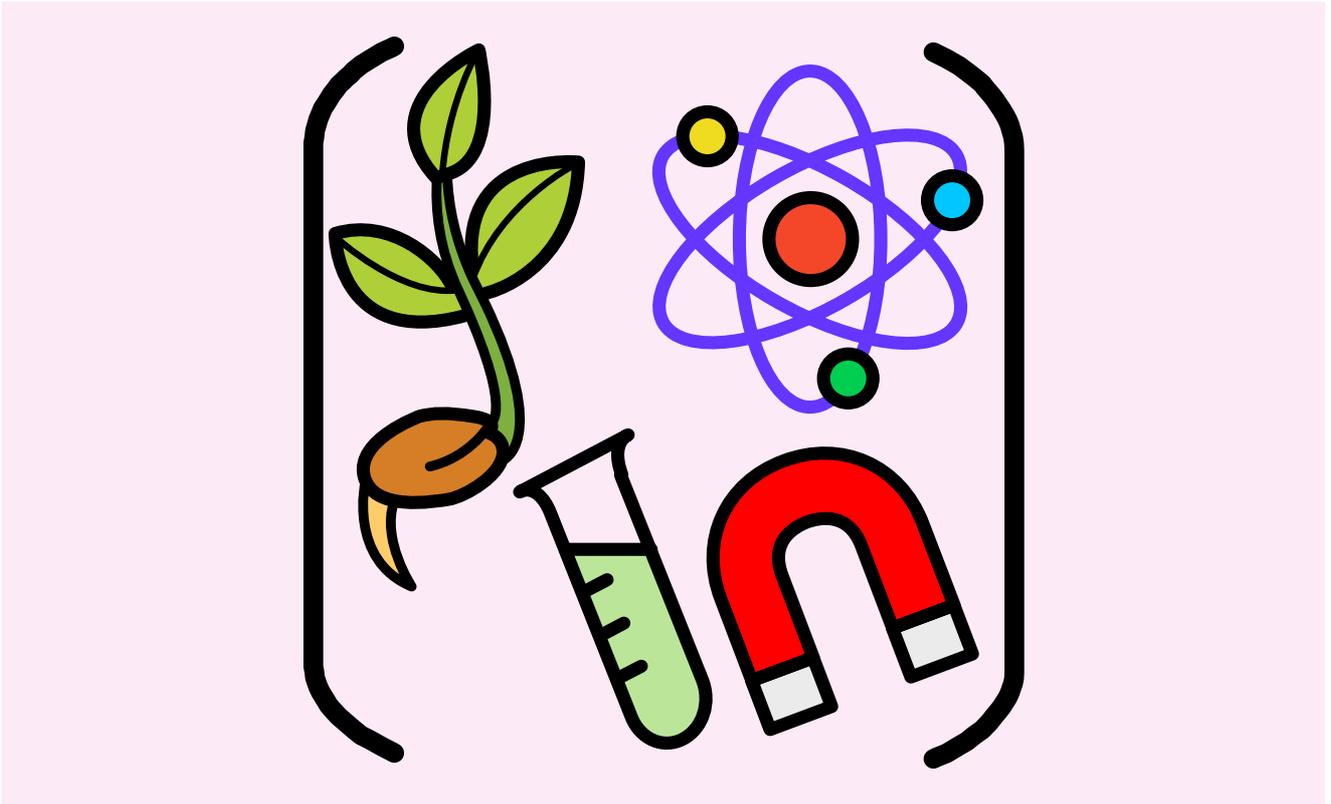


Rosalind Franklin was born in London in 1920.

Her father Ellis worked as a merchant banker.

Her mother was called Muriel.

Her siblings were David, Colin, Roland and Jenifer.

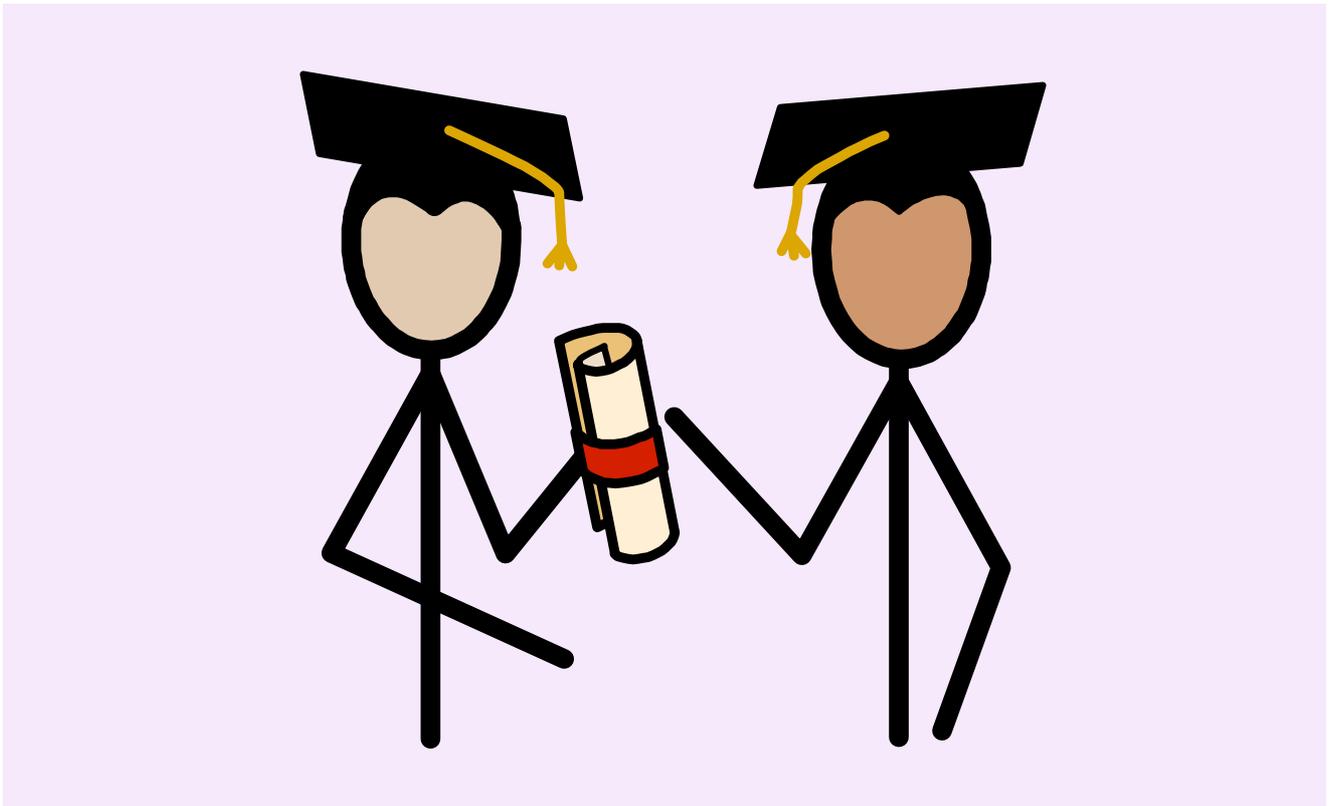


As a child Rosalind was a brilliant student.

She loved maths and science.

Aged 11 she went to St Paul's Girls' School in London.

Here Rosalind was taught physics and chemistry.

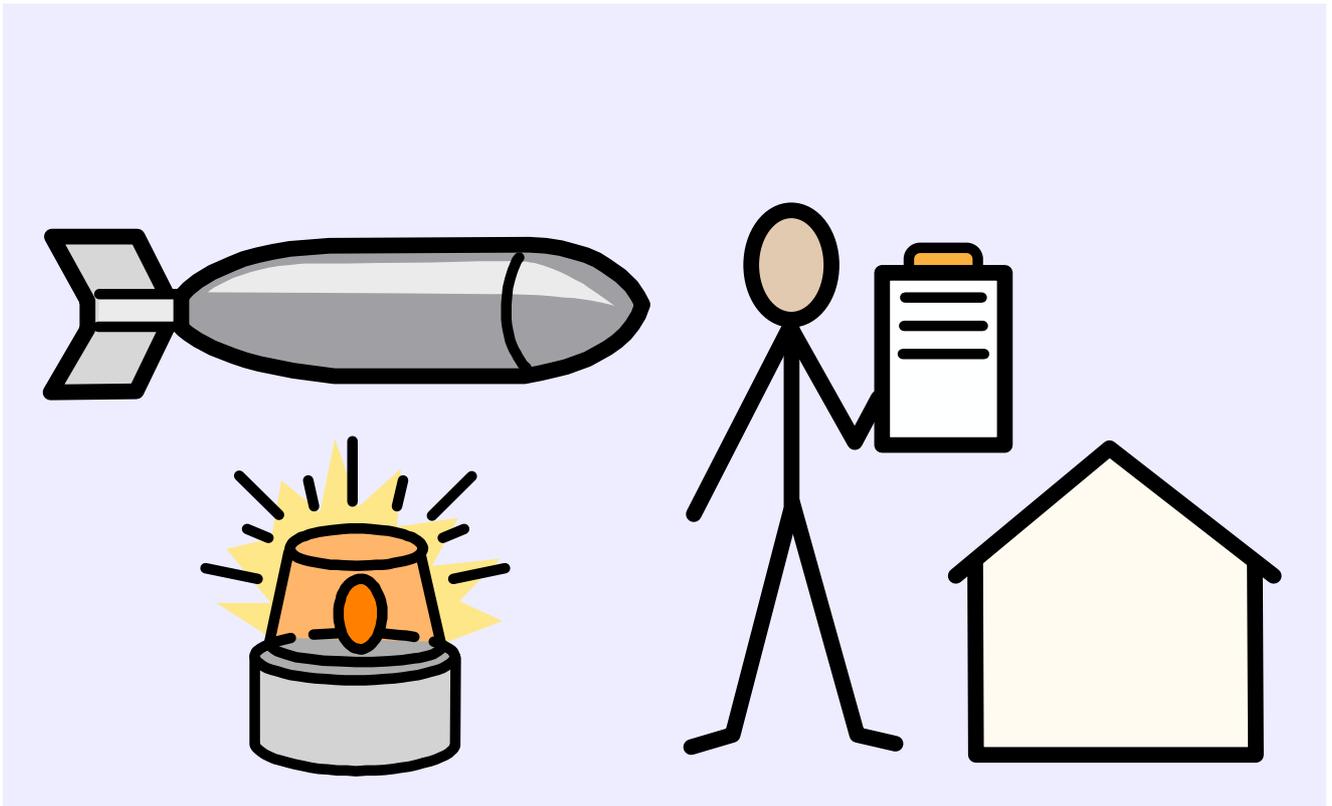


Rosalind was top of her class winning many awards.

In 1938 she went to Cambridge University.

At Cambridge Rosalind studied chemistry.

She graduated from University in 1941.

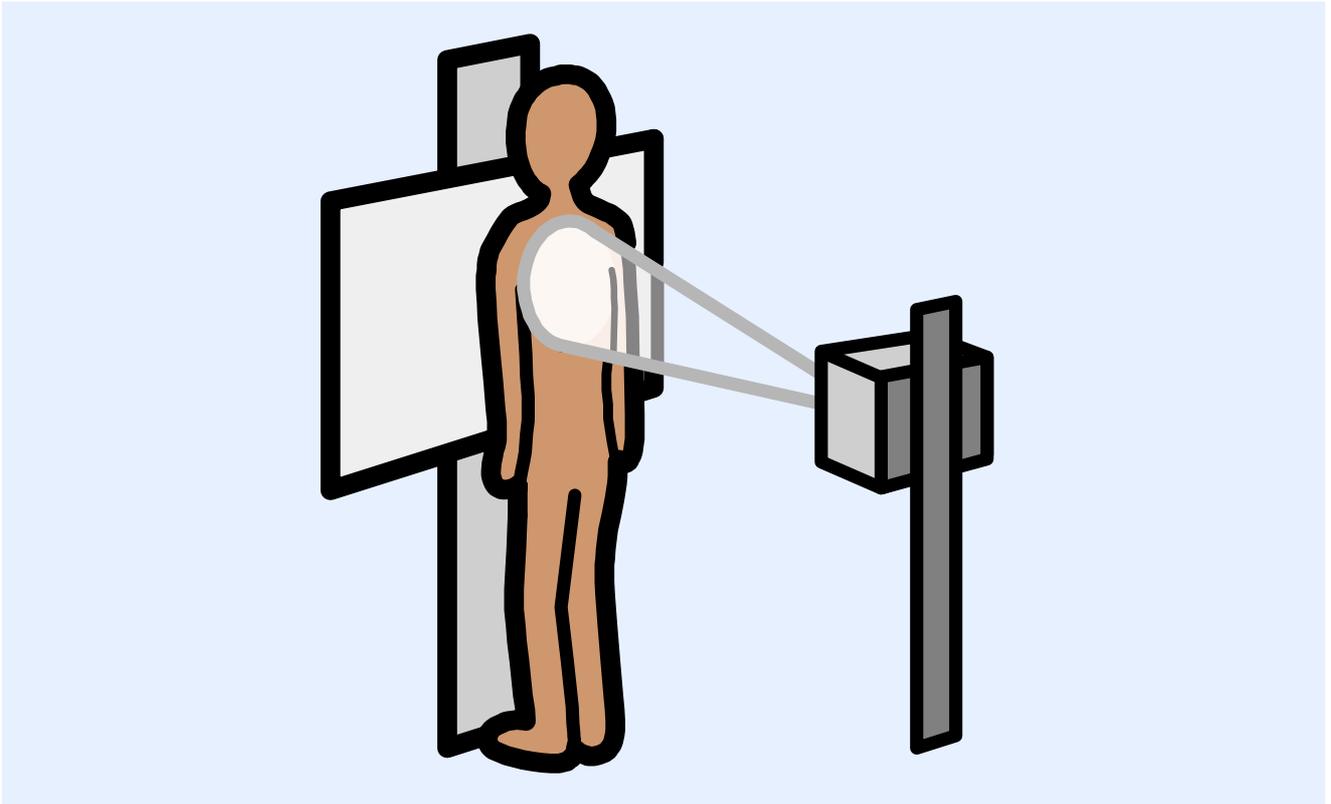


Rosalind studied coal to help science during the war.

She became an Air Raid Warden during World War 2.

She helped look after people during air raids.

In 1945 she received a PhD for her work on coal.

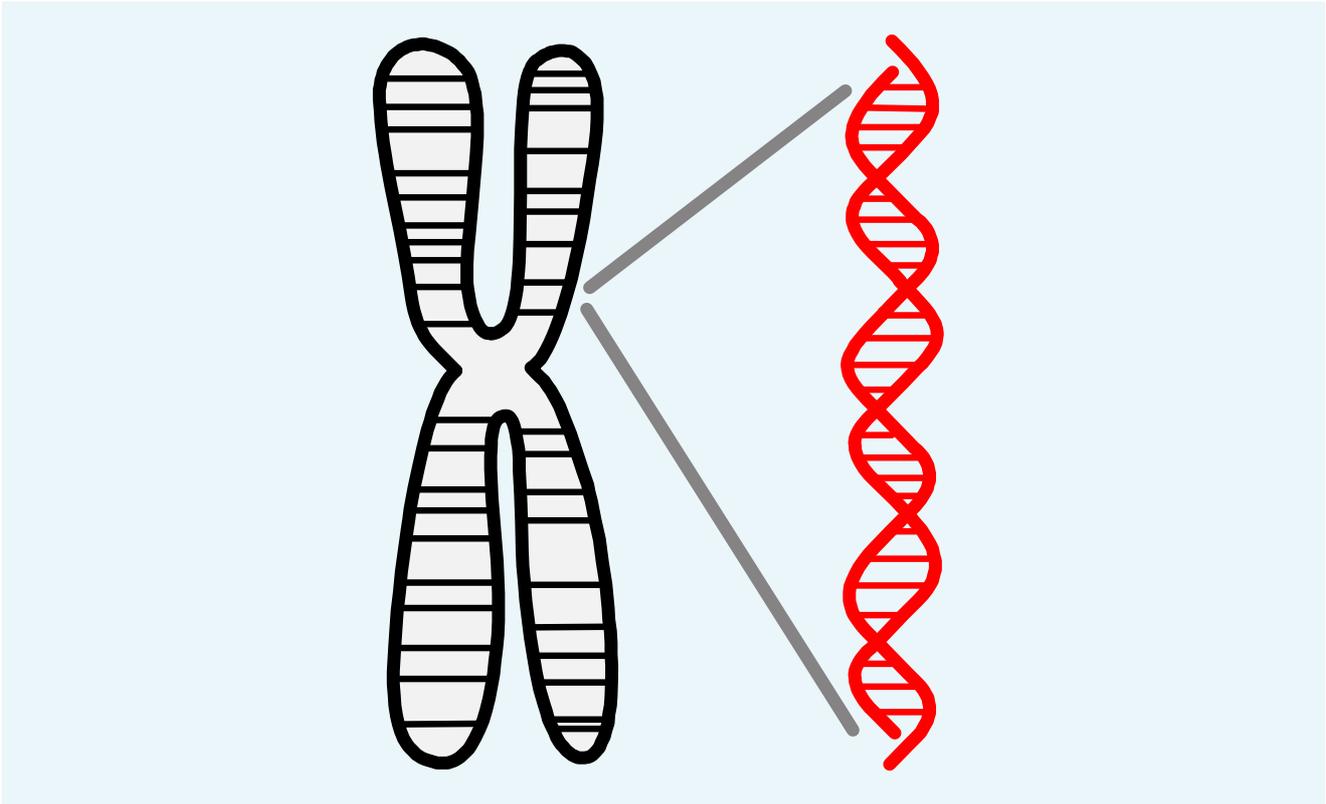


In 1947 Rosalind became a researcher in Paris.

In Paris she learned X-ray crystallography.

She fired X-rays at crystalline structures.

These were used to build pictures of the crystals.



Rosalind became an expert on this method.

In 1951 she returned to King's College London.

Here she began building pictures of DNA.

DNA is the code that helps build our bodies.



Rosalind was the 1st to see DNA was a double helix.

Her Photograph 51 showed this spiral structure.

The photo was given to competing scientists.

Watson and Crick used this for their DNA models.

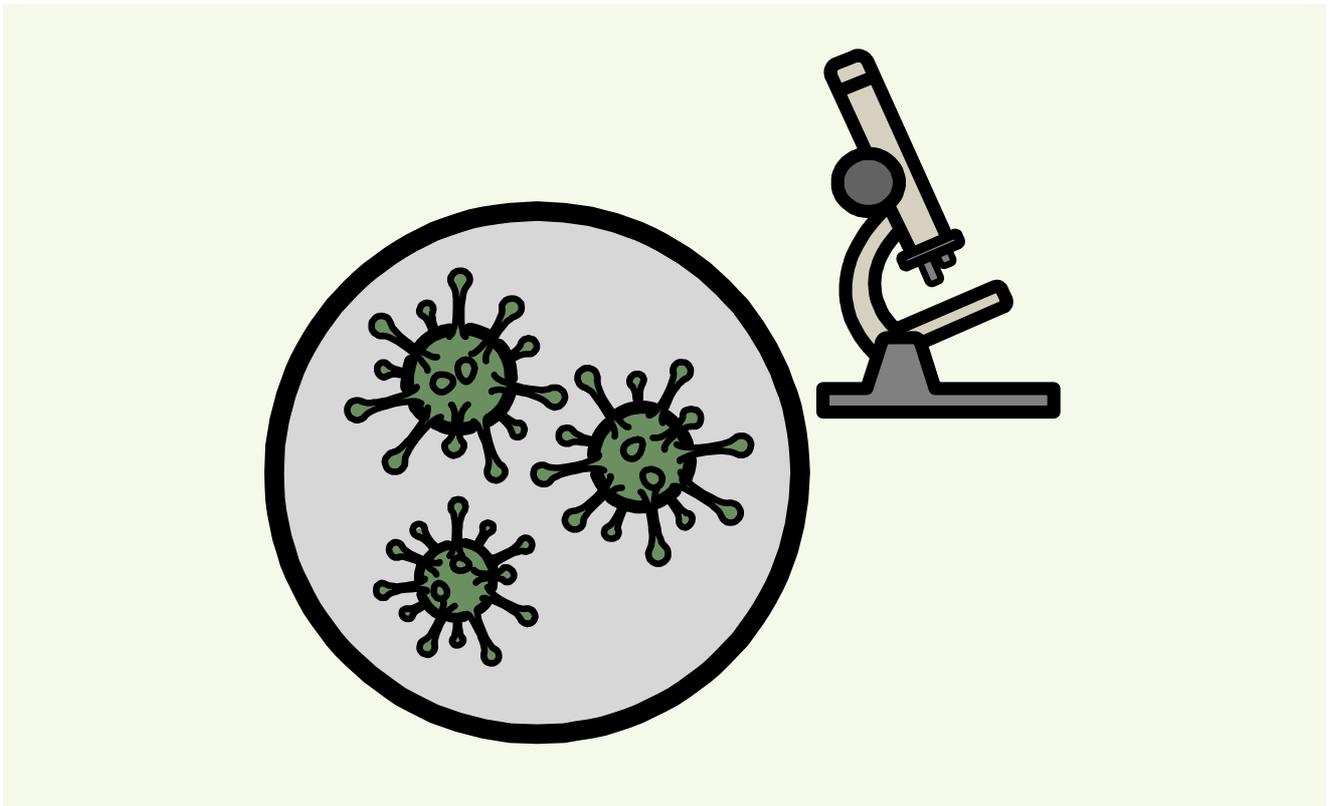


Watson and Crick were praised for this.

They didn't mention Rosalind's work.

They were given the Nobel Prize for this in 1962.

Rosalind's work helped discover the DNA structure.

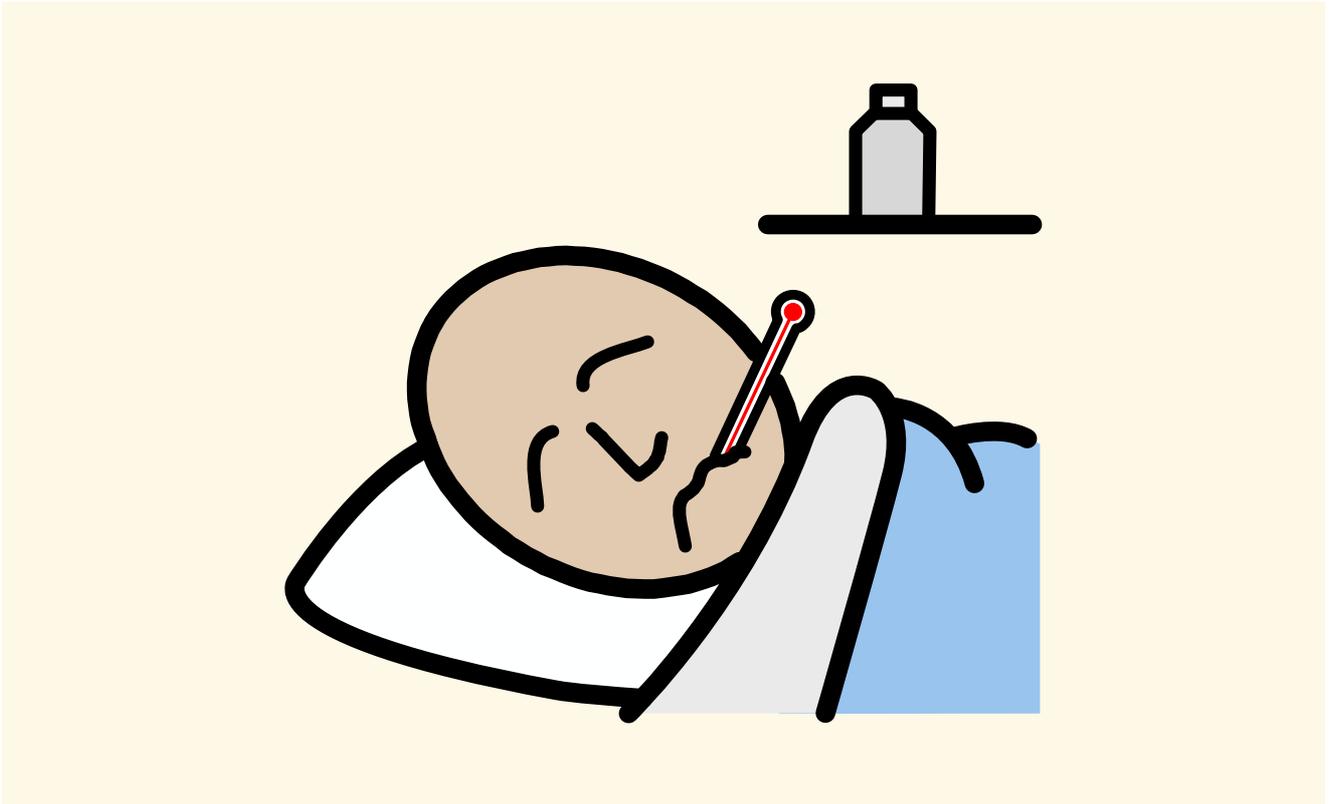


In 1953 Rosalind joined Birkbeck to study viruses.

She used X-ray crystallography to photograph them.

She studied the tobacco mosaic and polio viruses.

She created lab methods still used today.



In 1956 Rosalind became unwell.

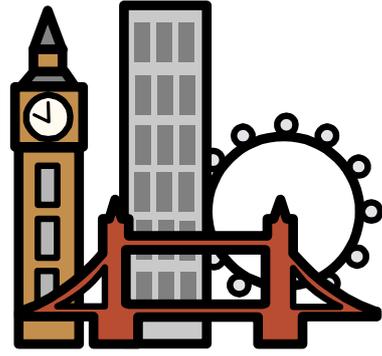
She spent time in hospital.

She continued her research publishing many papers.

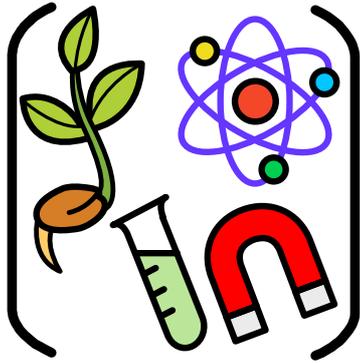
She sadly died on 16 April 1958 aged 37.



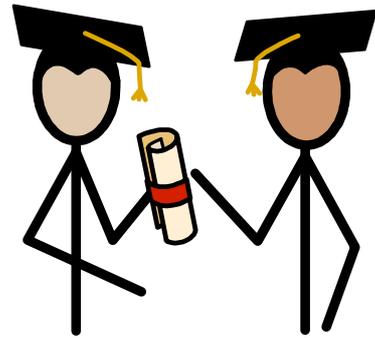
Rosalind Franklin



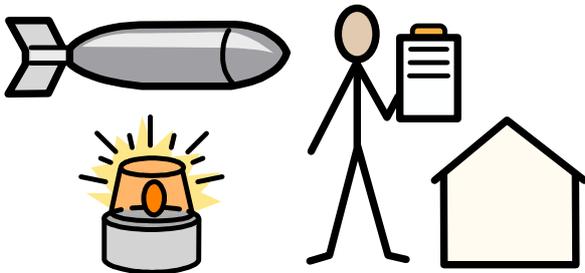
London



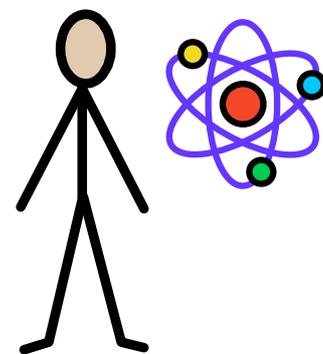
science



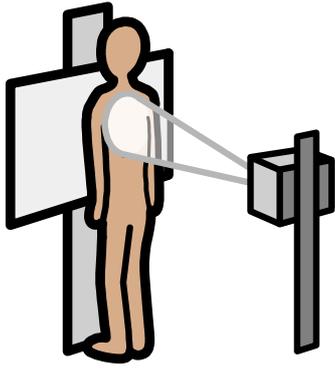
graduated



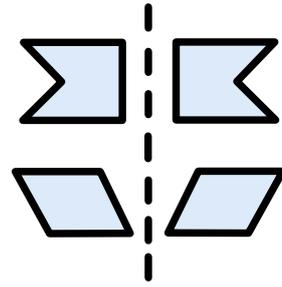
Air Raid Warden



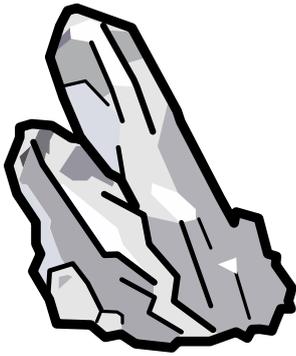
researcher



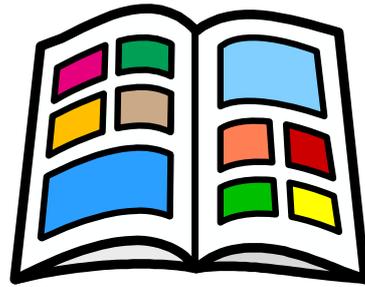
X-ray



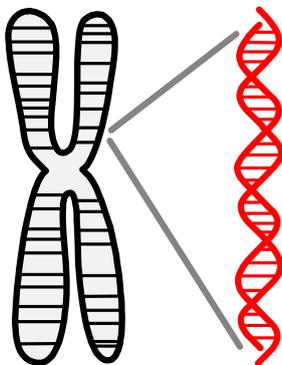
crystallography



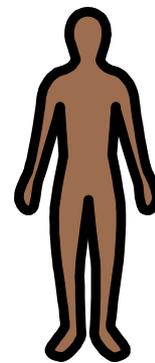
crystals



build pictures



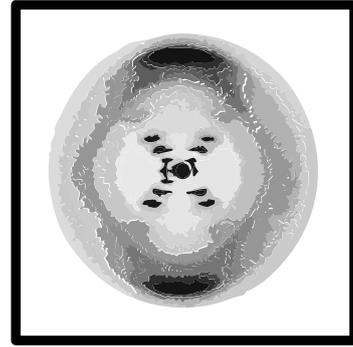
DNA



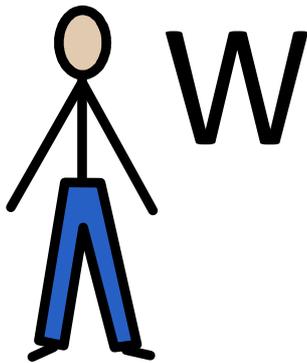
bodies



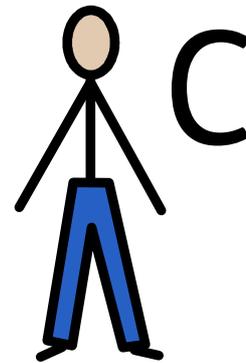
double helix



Photograph 51



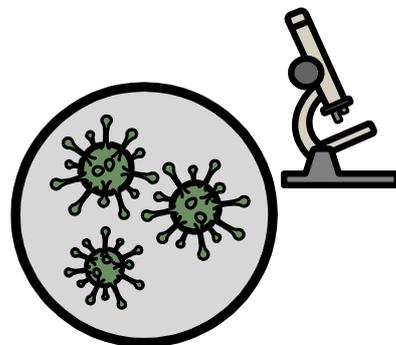
Watson



Crick



Nobel Prize



viruses