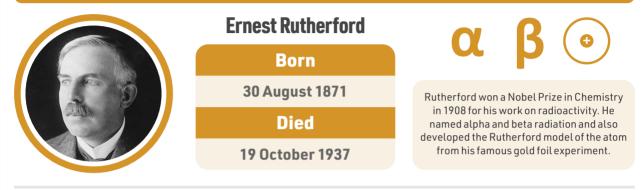
Today in Chemistry History

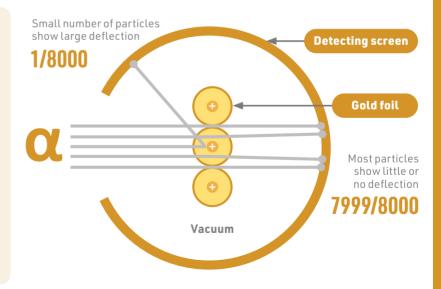
30th August – Ernest Rutherford's birthday (1871)



Rutherford's gold foil experiment

Hans Geiger and Ernest Marsden carried out this experiment between 1908 and 1913 under Rutherford's direction. Alpha particles were fired at thin metal foils. Most of the alpha particles passed straight through the foil, but a small number were deflected at a large angle.

The experiment showed that, contrary to previous models, positive charges (protons) are not spread evenly throughout the atom, but concentrated in a small, dense centre: the nucleus. A cloud of negative charges (electrons) surround the nucleus. Alpha particles that collided with the nucleus were repelled.





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