

Democritus

-He proposed that all matter, including space and time, was made up of small units named atoms. He did no experiments and had little evidence, but his idea was kept on by Lucretius



-Created the periodic table elements according to their states that "physical and periodic functions of their atomic numbers."



Mendeleev

of elements which organizes similarities. His Period Law chemical of the elements are





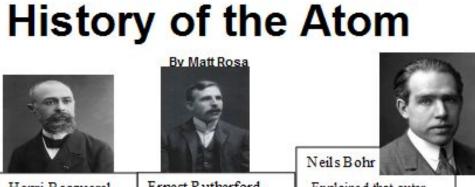
Henri Becquerel

-Discovered radioactivity, which earned him a Nobel Prize. Also discovered that rays emitted from uranium caused gases to ionize.



Ernest Rutherford

-Used the gold foil experiment to discover the modern model of an atom. He concluded that all positive charges were centralized, while negative electrons orbited the nulceus.



Neils Bohr

-Explained that outer orbits in an atom could hold more electrons than the inner orbits. By knowing this, one can determine the atom's chemical properties.He also gave birth to the idea that electrons emit light by jumping orbits.



Heisenberg

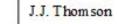
-Thought of the Uncertainty Principle. This principle states that one can never know the exact location and energy of an electron simul taneously.

1925

460BC 1803 1869 1907 | 1910 1913 1885 1896 1897



-Agreed that all matter was created by atoms, which he believed were indestructible. He also stated that compounds are created by combining two atoms, and that lal atoms of given elements are identical in their mass and properties.



-Discovered the

Eugene Goldstein electron. He -Discovered experimented by testing and studying the nature of electric discharge in a high vacuum cathode-ray

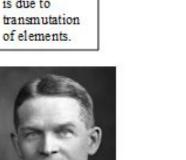


-Used an oil drop experiment to determine the charge of a single electron.



-Came up with the concept of isotopes. Explain with Ernest Rutherford that radiation is due to





Chadwick

1932

-Discovered the neutron. The neutron helps balance out protons in the nucleus of an atom.





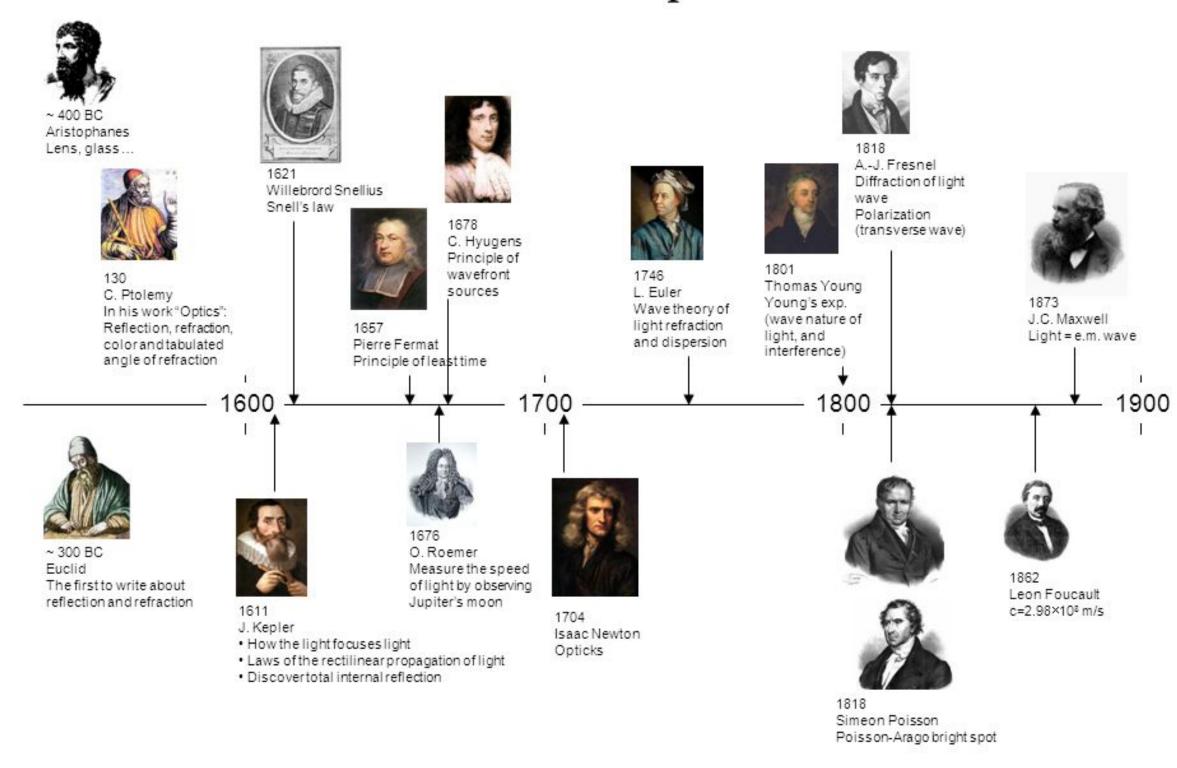
positive particles. He noted that the

particles had a charge equal and opposite to the electron.





Timeline of Optics





Hypatia c351



Sophie Germain 1776



Marie Curie 1867



Emmy Noether 1882



Maria Goeppert 1906



Chien Shiung Wu 1912



Rosalind Franklin 1920



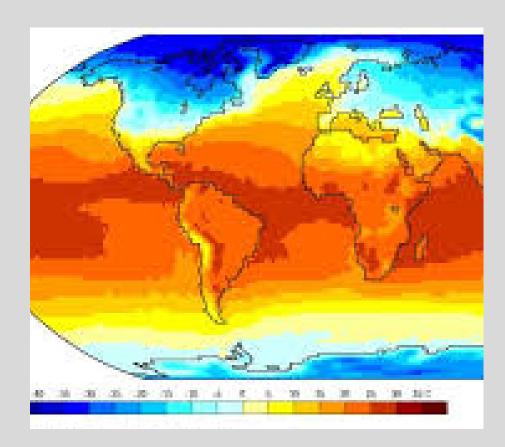
Vera Rubin 1928

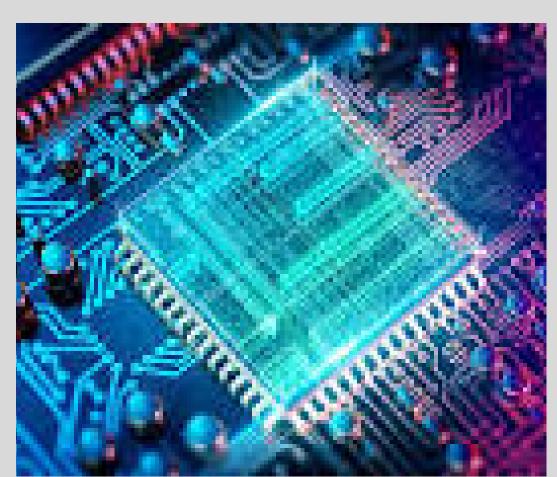


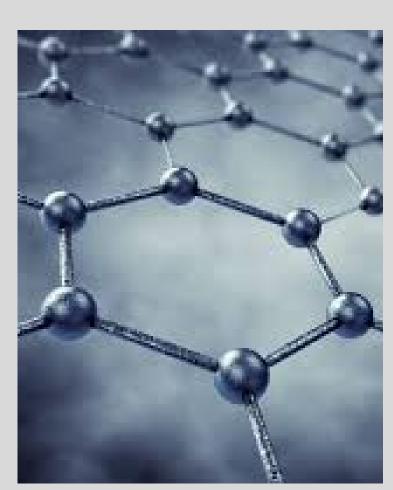
Prof Dame Jocelyn Bell Burnell

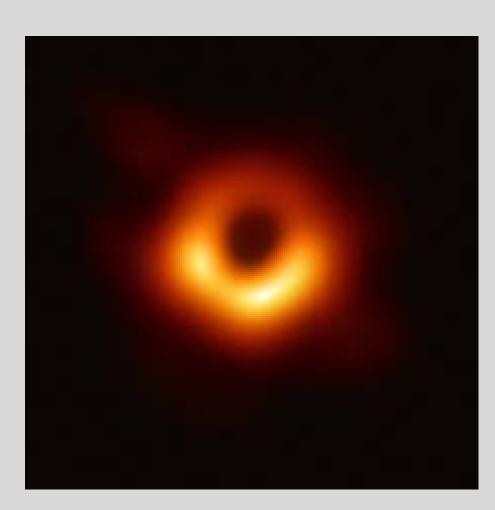












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