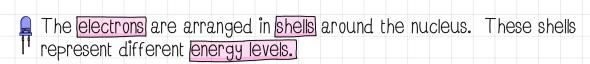
Electronic arrangement

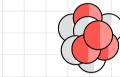


The electron position may change with the absorption of electromagnetic radiation and move further from the nucleus to a higher energy level.

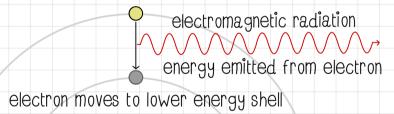
electron moves to higher energy shell

electromagnetic radiation

energy absorbed by electron



The electron position may also change by the emission of electromagnetic radiation and move closer to the nucleus to a lower energy level.





- When an electron is at its <u>normal</u> energy level it is said to be in its <u>"ground</u> state". When the electron absorbs energy and moves to a <u>higher</u> energy level it is said to be in its <u>"excited</u> state".
- Light emitting diodes work using this principle. When excited electrons drop back to their ground state, light is emitted. By using different materials different colours of LEDs can be made. By combining red, green and blue LEDs, white light can be produced.