

SPECTROSCOPY

Science of identifying elements from emitted wavelengths

SPECTROSCOPE

Instrument for identifying wavelengths

CONTINUOUS SPECTRUM

All wavelengths in a certain range

EX: visible light is ROYGBV

BRIGHT LINE SPECTRUM

Various bright color bands representing individual wavelengths

FLAME TEST

Identifying elements from light emitted while atoms are excited by a flame.

QUANTUM

Amount of energy needed to move an e^- from ground state to excited state.

CONSERVATION OF ENERGY

Energy cannot be created nor destroyed.

EX: Same quantum of energy to excite an e^- is released as it returns to ground state.

PHOTON

Smallest unit of energy. One jump-return cycle.