

ASGARD VII 2016-2017 EXPERIMENTS (2 pages)



Primary



Aalst

Sint-Jozefcollege

Testing UV bracelets with and without sunblocker in stratosphere



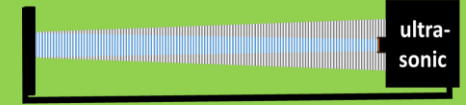
UV



Etterbeek

Koninklijk Atheneum

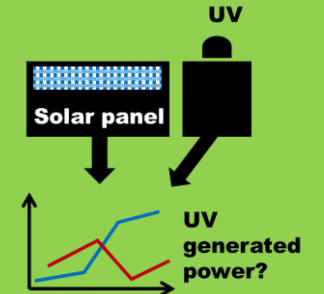
Ultrasonic distance sensor with fixed distance shows changes in speed of sound



Zottegem

Koninklijk Atheneum

Compare UV radiation levels with power output of solar cell



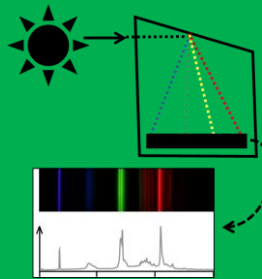
Secondary advanced



Dilsen

Stedelijk Humaniora

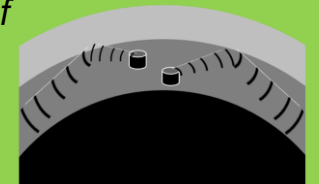
IR spectroscopy to determine atmospheric composition



St-Niklaas

Vrije Technische Scholen

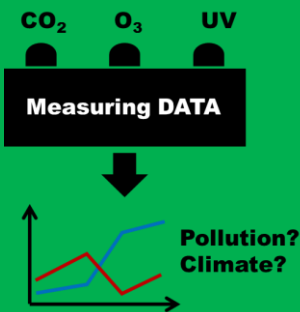
Investigate the influence of altitude of a radio wave transmitter on the ionospheric propagation



London

St-Paul's school

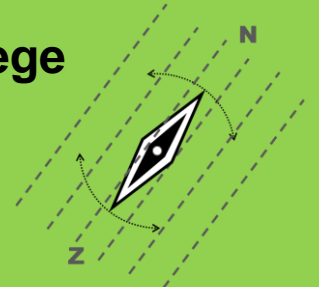
Climate and meteo data collection. Compare data with height and with each other.



Kortrijk

Guldensporencollege

Monitoring of earth magnetic field



Secondary beginner

Primary



Alken

't Schommelbootje

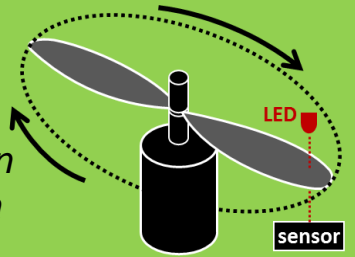
Compare micro-organisms on the flight with control group on the ground



Kuurne

Spes Nostra

Monitoring influence of varying air resistance on number of rotations of a motorized rotor



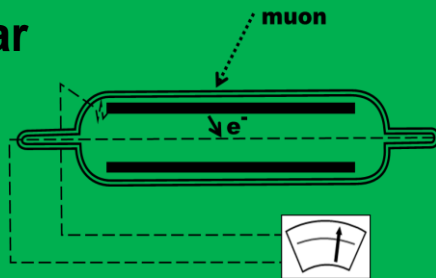
Secondary advanced



Madrid

Colegio Retamar

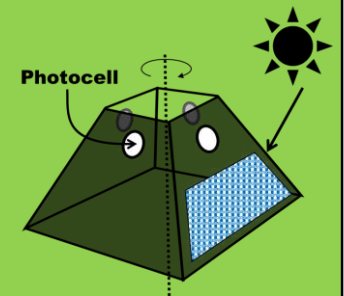
Muons passing through fluerescent tubes are detected and counted



Nivelles

Institut de l'Enfant-Jésus

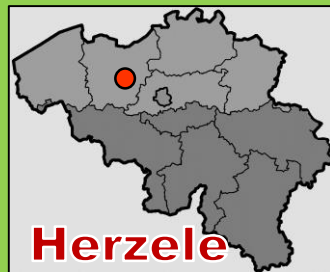
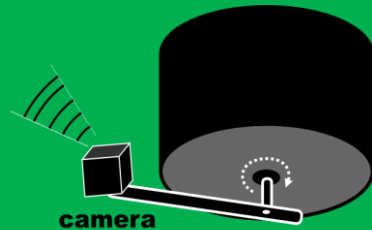
Pointing rotating pyramid towards the sun continuously during flight to maximize sun power



Willebroek

Atheneum

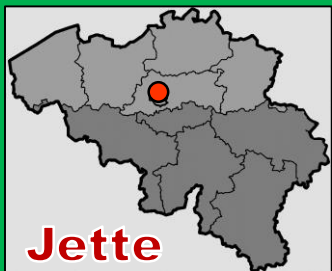
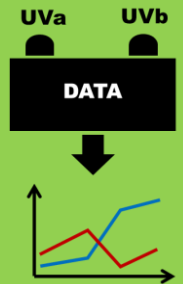
Robotic arm with camera to watch gondola + radio wave data transmission



Herzele

GO! Atheneum

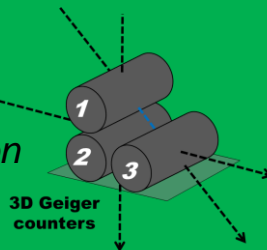
Measure radiation in UV range in function of altitude, compare with data of St-Jozefcollege Aalst



Jette

St-Pieterscollege

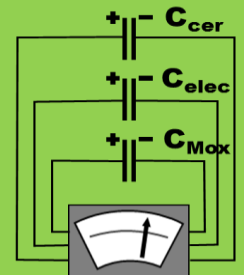
- Several measurements
- Several data transmission experiments
- 3D Geiger counter



Etterbeek

Centre scolaire St-Michel

Monitor insulator variations during flight in different types of capacitances



Secondary beginner