

# Physics Summer Assignment



**Aim: Research particles, photoelectric effect and Young modulus in preparation for learning more about these topics in year 12.**

- Research the following groups of particles; Baryons, Mesons, Leptons & Quarks.
  - Use websites such as
    - <http://hyperphysics.phy-astr.gsu.edu/hbase/Particles/parcon.html>
    - <https://www.savemyexams.com/a-level/physics/aqa/17/revision-notes/2-particles--radiation/2-2-classification-of-particles/2-2-1-hadrons/>
    - <https://www.physicsandmathstutor.com/physics-revision/a-level-aqa/particles-and-radiation/>
- Prepare a short presentation about these particles to include the following:
  - Name
  - Examples
  - Forces they interact with
  - What they are composed of
- Write a short essay to 'describe and explain the photoelectric effect'
- What is the Young modulus and how can it be calculated? Research and write your own method you could use in a lab to determine the Young modulus of a length of wire.

Remember to include references to your sources