

Science - PS7 revision

Please use this document to help direct your revision.

This is also on google classroom

- You will be assessed cross Biology, Chemistry and Physics.
- You will be revising topics covered since Year 4.
- Be honest with revision - eg. do not keep revising the photosynthesis equation if you already know it.
- Revise the aspects you struggle with.
- Re-reading a textbook again and again is not an effective revision. Test yourself using various formats and question styles.

Pupils can ask or email ecc@holmwood.house for advice.

- Useful sites and apps are;
 - <http://www.thesciencesite.co.uk/>
- Useful sites and apps are;
 - www.focuselearning.co.uk/u/33297/tltiopirlubDrognerBDlcmsaupFxDnki (Login details - student@holmwoodhouse24137 password - Holmwood456)
 - <http://www.thesciencesite.co.uk/>

Good luck

Useful equations

- Speed
- Photosynthesis
- Respiration
- Neutralization reactions (Acids & Alkalis)

Biology Topics

Cells and Organisation

Science - PS7 revision

- Structure of animals and plant cells
- Role of specific organelles (Cytoplasm, Nucleus etc)

Humans (Biology)

- Breathing (mechanical)
- Structure of the respiratory system
- Mechanism of breathing
- Circulation (Structure of the heart)
- Negative effective of smoking

Green Plants (Biology)

- Structure of a plant
- Understanding that and why photosynthesis is daytime
- Equation of photosynthesis
- Respiration process & equation
- Adaptation of leaves - Large surface area

Ecology (Biology)

- Habitats
- Ecosystems
- Food chains

Reproduction in animals

- Cell specialisation
- Terminology
- Gestation periods
- Menstruation in an outline, no detail needed.

Chemistry topics

Separating mixtures (Chemistry)

- Structures of solids liquids and gases
- All states
- Define solute solvent solution soluble insoluble
- Separation techniques
- Sieving, distillation, evaporation, filtering, chromatography

Acids and alkalis (Chemistry)

- Universal indicator paper
- PH scale
- Example of everyday acids and alkalis
- Neutralisation (green)
- Acid + Akalias = Water - Salt

Science - PS7 revision

Tests for;

- Oxygen - relights a glowing splint
- CO₂ - Limewater cloudy
- Hydrogen - burning splint make a squeaky pop

Atom elements and compounds (Chemistry)

- Gases of the air

Physics

Energy (Physics) - YEAR 7

- Seven types
- Resources, 'renewable resource is something that can be replenished in a human life time'
- Sun source of all other energy resources
- How electricity is generated
- Law of conservation - energy

Electricity

- Parallel Circuits
- Series circuits
- Ammeters
- Current (Does not get used up)
- More complex circuit symbols.

Light (Physics)

- Law of reflection
- Law of refraction
- Dispersion

Sound

- Wave
- Oscilloscope reading
- Echo
- How do we hear sound
- Speed of sound as a concept.

Science - PS7 revision



Space (Physics)

- Define day
- Define year
- Explain seasons
- Eclipse
- Mass and weight difference
- Satellites
- Solar system