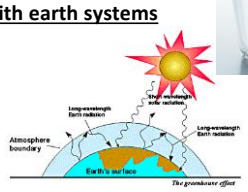
Learning Journey Map
Year 10 – Chemistry Separates

OCR
Oxford Cambridge and RSA

Year 10 Survival Top Tips	
Tip 1	Learn and revise vocabulary weekly, use glossaries given and - Quizlet/Seneca/Educake
Tip 2	Use ' Youtube- e.g. myGCSE, MrExham to help review key skills and concepts
Tip 3	Use GCSE Bitesize/Kerboodle resources/past OCR questions
Tip 4	Use the Pixl Resources on Firefly & therapy questions
Tip 5	Read online science news, watch science documentaries

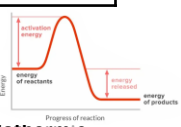
Move on to Year 11

C6 Global challenges:
C6.3 Interpreting and interacting with earth systems (Summer home learning)
- ❑ Forming the atmosphere
- ❑ Pollution and the atmosphere
- ❑ Climate change
- ❑ Water for drinking

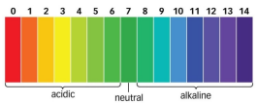


YEAR 10

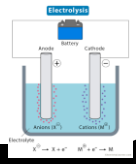
C3 Chemical reactions:
C3.2 Energetics
- ❑ Exothermic and endothermic reactions
- ❑ Reaction profiles
- ❑ Calculating energy changes



C3 Chemical reactions:
C3.3 Types of chemical reaction
- ❑ Redox reactions
- ❑ The pH scale
- ❑ Neutralisation
- ❑ Reactions of acids
- ❑ Hydrogen ions and pH

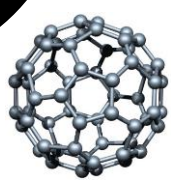


C3 Chemical reactions:
C3.4 Electrolysis
- ❑ Electrolysis of molten salts
- ❑ Electrolysis of solutions
- ❑ Electroplating



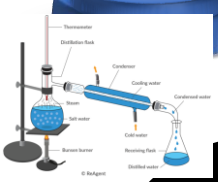
C3 Chemical reactions:
C3.1 Introducing chemical reactions
- ❑ Formulae of elements and molecules
- ❑ Formulae of ionic compounds
- ❑ Conservation of mass
- ❑ Chemical equations
- ❑ Half equations and ionic equations
- ❑ The mole
- ❑ Mole calculations

C2 Elements, compounds and mixtures:
C2.3 Properties of materials
- ❑ Carbon
- ❑ Changing state
- ❑ Bulk properties of materials
- ❑ Nanoparticles

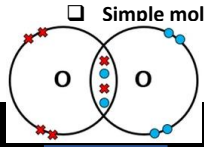


YEAR 10

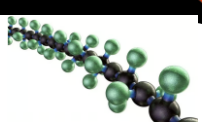
C2 Elements, compounds and mixtures:
C2.1 Purity and separating
- ❑ Relative formula mass
- ❑ Empirical formula
- ❑ Pure and impure substances
- ❑ Filtration and crystallisation
- ❑ Distillation
- ❑ Chromatography
- ❑ Purification and checking purity

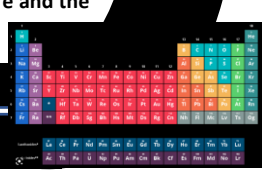


C2 Elements, compounds and mixtures::
C2.2 Bonding
- ❑ Metals and non-metals
- ❑ Electronic structures
- ❑ Forming ions
- ❑ Ionic compounds
- ❑ Simple molecules



- ❑ Giant covalent structures
- ❑ Polymer molecules
- ❑ Structure of metals
- ❑ Developing the Periodic Table
- ❑ Atomic structure and the Periodic Table

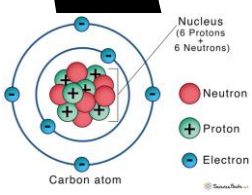




YEAR 10

C1 Particles:
C1.2 Atomic structure
- ❑ Atomic structure
- ❑ Isotopes
- ❑ Developing the atomic model

Review of prior knowledge
C1 Particles:
C1.1 The particle model
- ❑ Introducing particles
- ❑ Chemical and physical changes
- ❑ Limitations of the particle model



YEAR 10

CURRICULUM OVERVIEW

Development of key scientific skills: planning valid experiments, carrying out practicals safely, displaying & processing data, as well as analysing & evaluating results

Possible careers

Research scientist Biologist Doctor Nurse Forensic scientist Ecologist Farmer Nutritionist Sports scientist Personal trainer Biochemical engineer Civil Engineer Paramedic CSI Pharmacist Police officer Geologist and many more!!

CURRICULUM OVERVIEW