"Life is not easy for any of us. But what of that? We must have perseverance and above all confidence in ourselves. We must believe that we are gifted for something and that this thing must be attained."

Marie-Curie







resources

sustainably.

Chemistry or GCSE **Science** (Trilogy)

Revision and mastery: Chemistry exam technique practice and PPE question breakdown







Identifying gases by a colour change or an insoluble solid that appears as a precipitate.

C8: Chemical Analysis

Evaluating human impact on the Earth's natural cycles.

Describing the changes of the Earth's atmosphere. Explaining the causes of these changes.

Resources

potability



C7: Organic Chemistry

Identifying that sources include fossil

fuels which are a major source of

Using C-C bonding to identifying modifications to make other

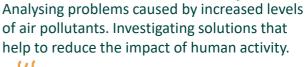
Investigating variables that can be manipulated in order to speed up or slow down reactions.

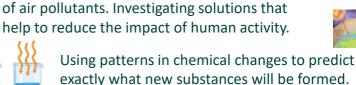
substances, like polymers.



Explaining exothermic and endothermic reactions with bonds.

C6: Rates of Reaction C5: Energy Changes C4: Chemical Changes





Linking to the complex reactions that take place

C9: Chemistry of

the Atmosphere



Describing the use of electrolysis for different means and outcomes.

Analysing graphs to describe rates

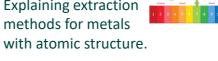
YEAR

or reaction.

Identifying reversible reactions.

Describing and explaining how interactions between ions in an electrolyte methods for metals result in the production of electricity.

Explaining extraction



in living organisms.

Using quantitative analysis to determine the formulae of compounds and equations for reactions.



Using simple models of the atom, symbols, relative atomic mass, electronic charge and isotopes.







Explaining the physical and chemical properties of materials.

C2: Bonding, structure and





C1: Atomic Structure

Using the periodic table and atomic structure to predict explain patterns of behaviour.



Theories of bonding explain how atoms are held together in these structures.

the properties of matter

Investigating the contribution that natural and human processes make to our carbon. dioxide emissions. Writing word equations.

Comparing exothermic and endothermic reactions.

Determining purity of chemical samples and identifying expected yields.

Utilising practical skills to determine energy changes





Earth Resources

Applying the reactivity series to

extraction techniques for metals.

the Earth.

Understanding

the structure of

describe and explain the best

Climate

Exploring igneous, sedimentary

and metamorphic rocks and their

Types of Reaction

Identifying combustion, thermal decomposition and chemical changes.

YEAR



Comparing elements and compounds.

Chemical Energy

Applying nomenclature to naming compounds.



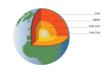




Earth Structure

roles in the rock, cycle.

Investigating acids, alkalis, indicators and neutralisation.



Using particles to explain matter and state.

Applying the role of particles in diffusion.



types of substances: atoms,

elements and compounds.

Using the Periodic Table to identify patterns of Utilising literacy skills with key behaviour. terminology the names of



Separating mixtures using specific equipment and techniques.

Safety in Science





Welcone



Separating Mixtures

Utilising literacy skills with key terminology relating to solutions.





Applying understanding to new situations and making sense of the state changes.



Particle Model



Exploring the reactions of acids with metals, comparing reactivity to make predictions about reactions.



















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