

Sets (s): ALL Y9 LP4 2019-20

YEAR 9 CHEMISTRY

Knowledge Focus: : Elements mixtures and compounds the periodic table and reactions.



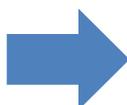
**Ysgol Uwchradd
Prestatyn
High School**

This half term : Skills, Knowledge and Understanding to be developed:
Understand trends and patterns in the periodic table and how they relate to reactions of group 1, 7 and 0 elements.

Key Terms to be learned this half term:
Metal, non-metal, trend, state, alkali metal, reactive, halogen, noble gas, vigorous, metal hydroxide, metal oxide, density, fluoridation, chlorination.

Week 1 and 2 Learning Objectives etc:

- Complete planet earth and atmosphere from week 7 LP3.



Be able to describe how to test for oxygen, carbon dioxide and hydrogen and the observations you would make for each.

App Element mixture compounds, physical and chemical change

Define element mixture and compounds.

Properties of metals and non- metals.

Describe how elements change from metals to non-metals across the periodic table with semi-metals in between.

Objective assessments:

Complete worksheet on gas tests.

Practical looking at a chemical and physical changes.

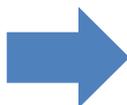
Periodic table to label.

Homework:

Mr Meldrew's chemical day.

Revise for App

Week 3 and 4 Learning Objectives etc:
Identify physical and chemical changes.



Describe the reactions of group 1 elements with water and oxygen. Give the trends in physical properties. Give the products and trends in reactions.

Be able to write word equations for the reactions.

Objective assessments:

Practical looking at a chemical and physical changes.

Table observations and trends reactivity.

Graph and questions group 1.

Homework:

Word equations
Revise for SA

Week 5 and 6 Learning Objectives etc:

Describe the reactions of group 1 elements with water and oxygen. Give the trends in physical properties. Give the products and trends in reactions.

Be able to write word equations for the reactions.

Give the trends in physical properties and uses of group 7 elements (halogens).

Find the key words to complete the questions uses of group 7.

SA The periodic table

Table observations and trends reactivity.

Graph and questions group 1.

Comprehension.

Key words from information sheet group 7.

Halogen properties summary sheet.

Summary poster or powerpoint on the uses and properties of group 7 elements.

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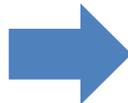


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Week 7 Learning Objectives etc:

**Explain the words element, mixture compound.
Use a diagram or chemical formula to work out the
names of simple compounds.
Explain what a chemical formula shows.**

**Explain the difference between atoms and molecules.
(Observe a chemical reaction between iron and
sulfur)
Represent simple molecules using a diagram and
key.
Recognise examples of elements and compounds.
Explain what a chemical formula tells you**



Objective assessments:

Comprehension.

Key words from
information sheet group 7.

Halogen properties
summary sheet.

Exploring 8 p86-87 and 8Fd1

8Fd5 Elements compounds
and formulas 2
8Fd7 elements and
compounds

Exploring 8 p92-93
8Ga1 the elements of
jewellery
8Ga2 fool's gold
8Ga5 formulae elements and
compounds

Homework:

Summary group 1,7,0.

**8Fd 8 Naming
compounds**