

Sets (s): ALL Y9 LP5 2018-2019

YEAR 9 CHEMISTRY

Knowledge Focus: : Elements mixtures, compounds and reactions.



Ysgol Uwchradd  
Prestatyn  
High School

**This half term : Skills, Knowledge and Understanding to be developed:**

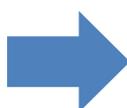
Understand the changes that happen during reactions and be able to represent chemical reactions using symbols and models. Know that some elements are more reactive than others.

**Key Terms to be learned this half term:**

Atom, molecule, element, compound, chemical formula, word equation, reactant, product, ion, alloy, electrolysis.

**Week 1 and 2 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 about a substance

**Objective assessments:**

Exploring 8 p86-87 and 8Fd1

8Fd 4 Elements compounds formulas 1 (S groups)  
8Fd5 Elements compounds and formulas 2 (P and H groups)  
8Fd7 elements and compounds

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

**Homework:**

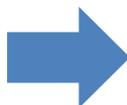
8Fd 8 Naming compounds

**Week 3 and 4 Learning Objectives etc:**

Complete work from last week

Be able to write word equations for reactions  
Identify symbols for atoms and ions.

Identify  $\text{Li}^+$ ,  $\text{Na}^+$ ,  $\text{K}^+$ ,  $\text{Ca}^{2+}$  and  $\text{Ba}^{2+}$  ions by flame tests and  $\text{Cl}^-$ ,  $\text{Br}^-$  and  $\text{I}^-$  ions by their reactions with silver nitrate solution



**Objective assessments:**

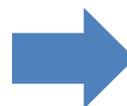
8Ga7 describing elements and compounds  
8Ga6 word equations (a selection to be completed from the worksheet). Label reactants and products.

**Homework:**

8Gd1 the gold standard.

**Week 5 and 6 Learning Objectives etc:**

Explain what is meant by a pure substance.  
Explain the difference between an alloy and a pure metal.  
Know how electricity is used to break up compounds  
The reactivity series  
Be able to describe and compare the reactivity of different metals  
Use a table to interpret data



Exploring 8 p98-99

8Gc 5, 8 or 9 Element mixture or compound 1,2, or 3

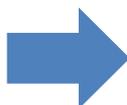
8Gd2 electric jewellery

**8Gd4 the colours of gold**

**Week 7 Learning Objectives etc:**

The reactivity series

Describe and compare the reactivity of different metals. Use a table to interpret data.



**Objective assessments:**

Exploring 9 p74-75  
Practical reactivity of metals

**Homework:**

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