

Sets (s): TA Y9 LP4 2019-20

YEAR 9 CHEMISTRY

Knowledge Focus: : Elements mixtures, compounds and reactions.



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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:

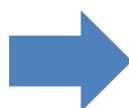
Use a diagram or chemical formula to work out the names of simple compounds.

Explain what a chemical formula shows.

Be able to write word equations for reactions

Identify symbols for atoms and ions.

App Chemical formulae



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.

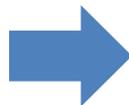
Identify Li^+ , Na^+ , K^+ , Ca^{2+} and Ba^{2+} ions by flame tests and Cl^- , Br^- and I^- ions by their reactions with silver nitrate solution

Week 3 and 4 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



Exploring 8 p98-99

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

8Gd2 electric jewellery

Homework:

8Gd4 the colours of gold

Week 5 and 6 Learning Objectives etc:

The reactivity series

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

SA Identifying ions, metals and alloys



9Fb 5 sort cards
Exploring 9 p74-75
Practical reactivity of metals

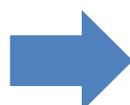
After HW 9Fa (8) has been done complete 9Fa 10

Homework:

9Fa (8) looking for patterns

Week 7 Learning Objectives etc:

Acids salts and bases



Objective assessments:

Homework:
9Fb10