There will be an interim assessment in each units; strengths and areas for development will be identified.

1. Matter 5 - Periodic table

Continuing previous work on atoms and elements we now study the Periodic table and how elements are arranged in it. We revisit subatomic particles found in atoms and explain how electrons are arranged. We look at the properties of different substances within the Periodic table and consider how the arrangement can tell us about properties. We then study groups 1, 7 and 0 in more detail explaining their properties and reactivity linking this to atomic structure.





Half

term

2

Method writing:

gas tests

ntrollancaster Yr 9 Chemistry at CLHS

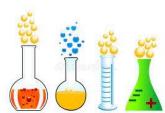
SUMMATIVE ASSESSMENT 1

(Organisms 5, matter 5, forces 3) week 9



Continuing the work from Year 7 and Year 8 we look at chemical reactions in more detail. We start by looking at how to test for the presence of different gases and then how to determine the metal in different metals salts. We **investigate** the process of

> thermal decomposition, writing word and chemical equations for it before completing the unit by considering what happens to mass in reactions and linking this to atoms.



3. Earth 2 - Resources

This unit links previous work on the structure of the Earth and reactivity of metals we compare methods of extracting metals. We move on to link the uses of ceramics and composite materials to their properties. This leads to considering how materials can be recycled and the advantages and disadvantages of this. We describe what the atmosphere of the Earth is composed of?. We then link ideas about biological processes and chemical reactions together in the carbon cycle. We finish by considering global warming and climate change.







Analysis and conclusions: reactions of group 7



SUMMATIVE ASSESSMENT 2 (organisms 6,

reactions 4, electromagnets 3) Week 18



Risk assessment: stress assessment: stress testing composite











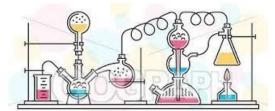
Half term



Half

term

3



4. Reactions 5 - Chemical energy

The final chemistry unit looks at energy in

catalysts are and how they can be used.

this further by analysing energy level diagrams

and calculating bond energies. We study what

chemical reactions. This starts by considering exothermic and endothermic and temperature changes. We then develop



Conclusion and evaluation: exothermic reactions





