## **KEVICC KS3 Curriculum:**

## Subject: Science

## Key terms and vocabulary.

Year: 7 Term: Across the yearTopic: ChemistryWhich words will be explicitly taught & hor frequently will understand?What is the essential knowledge from this unit? What do students need to remember and understand?Which words will be explicitly taught & hor frequently will understanding be checked? How will assimilation of new vocab be checked?Content - Autumn term - Particles • Students will be able to describe the particle model and use it to explain the states of matter and changes of state • Students will discover how particle theory can be used to explain diffusion and pressureBoiling, boiling poin change of state, condensation, diffusion, evaporati freezing, gas, liquid
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Spring Term – Elements, atoms and compounds and Chemical reactions melting, mixture
<ul> <li>Students will learn about the atoms that make up everything on Earth and beyond particle solid state</li> </ul>
Students will be able to use the periodic table to name elements     matter sublimation
Students will be faught what the ferms element, compound and mixture mean
Students will discover what chemical formula mean bolid mem into word equations
Students will be given the chance to explore and carry out chemical reactions including combustion, thermal decomposition and endothermic and exothermic reactions formula, chemical formul
<ul> <li>Students will be able to discuss conservation of mass</li> </ul>
Key practicals- making a compound (possibly FeS, but various reactions can be used), element, molecule,
selection of simple chemical reactions including combustion and exo/endothermic reactions Periodic Table,
Summer term – Acids and alkalis balanced symbol
Students will learn about acids and alkalis and how they behave     equation, catalyst,
Students will learn about indicators and the pH scale     chemical reaction,
• Students will discover how neutralisation takes place and the products of this reaction combustion,
Key practicals – testing substances for their pH, neutralisation reactions and making a salt conservation of mo
What prior learning supports understanding of How does this content link to future decomposition,
this content? learning? endothermic,
From KS2         For GCSE Chemistry         exothermic, fossil full
The different properties of different     Students will investigate changes of state     fuel, non-renewable
materials make them suitable for different in more depth and develop their oxidation, physical
<ul> <li>uses</li> <li>Materials exist as solids, liquids and gases</li> <li>Understanding of how atoms bond</li> <li>Students will continue to expand their</li> <li>Change, product,</li> <li>reactant reversible</li> </ul>
• The state of a material depends on the understanding of elements and the
temperature periodic table
Changes of state (melting, freezing,     Students will move on to looking at     decomposition, wo
evaporating, boiling and condensing) are compound and reactions in more detail equation, acid, alk
reversible including neutralisation, combustion and base, concentrated
Changes that form new materials are not reversible and include oxidation and     Students will be taught how to use and indicator litmus
Reduing, where in the students and thing is a solution of the state of
sopported to read complex deductine text:
comprehension activities in the integrated Skills communication that includes appropriate modelled by feacher and tested in periodic
literacy also includes reading graphs and tables in and tables to effectively communicate data.
order to extract meaning from data Conclusions to practical work is the most
important form of scientific communication
Key assessments:
Chemistry questions in Autumn and Spring 1, Spring 2 and Summer assessments parents as part of the

Students will be given feed back via DIRT sheets after each topic, regular feedback on skills tasks 12 times a year and tests 4 times a year. The students will be actively involved in all of these processes via 'purple pen'

## What will be seen in books?

Books will include notes on the content and practical/skills along with feedback via DIRT sheets (see above), skills sheets and tests will be found with purple pen relating to them all.