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| **What will we be learning?**Periodic Table | **Why this? Why now?** Previous Learning Particle Model, separating mixturesFuture Learning

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| Year 8 – elements |

GCSE – atomic structure and chemical analysisEnquiry ProcessesAnalyse Patterns, Draw Conclusions, Discuss Limitations, Estimate Risk, Review Theories | **Key Words:****Periodic table** **Physical properties** **Chemical properties** **Groups****Periods** |
| **What will we learn?*** Predict the position of an element in the periodic table based on information about its physical and chemical properties
* Use data about the properties of elements to find similarities, patterns and anomalies.
* Choose elements for different uses from their position on the periodic table
* Justify trend in physical properties using data
* Describe the reaction of an unfamiliar Group 1 or Group 7 element
* Use observations of a pattern in a chemical reaction to predict the behaviour of an element in a group
* Describe where simple groups of elements are found on the periodic table
* Recall the names of group 1, 0 and 7

**Misconceptions in this topic**

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| * Difference between a molecule and a compound
* Connection between group number and the charge it will have (only need to know group 1 and 7 and that they gain or lose to get to Noble gases)
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| **What opportunities are there for wider study?**Trips/Careers/STE(A)M/Extracurricular activities CareersParticle physicist Space engineer Fragrance analyst Technical designerSTE(A)M <https://highcliffe.sharepoint.com/sites/LearnSTEM> |
| **How will I be assessed?**End of topic assessment |