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| --- | --- | --- | --- |
| **What will we be learning?**    Periodic Table | **Why this? Why now?**  Previous Learning  Particle Model, separating mixtures  Future Learning   |  | | --- | | Year 8 – elements |   GCSE – atomic structure and chemical analysis  Enquiry Processes  Analyse 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**   |  | | --- | | * 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) | | |
| **What opportunities are there for wider study?**  Trips/Careers/STE(A)M/Extracurricular activities  Careers  Particle physicist Space engineer Fragrance analyst Technical designer  STE(A)M  <https://highcliffe.sharepoint.com/sites/LearnSTEM> | |
| **How will I be assessed?**  End of topic assessment | |