

9. The Periodic Table: Chemical Periodicity

9.3 Chemical periodicity of other elements

Paper 1

Question Paper

- 1** Due to their similar ionic radii, the reactions of lithium and magnesium and their corresponding compounds are very similar.

Which statement about the reactions of lithium or its compounds can be predicted from this statement?

- A** Lithium burns very slowly in oxygen.
- B** Lithium carbonate decomposes on heating in a blue Bunsen burner flame, forming lithium oxide and carbon dioxide.
- C** Lithium nitrate decomposes on heating, forming lithium nitrite, LiNO_2 , and oxygen.
- D** Lithium reacts very violently with cold water, producing hydrogen.