

**GROUP 1 ELEMENTS**

1. The elements in group 1 of the periodic table are called 'The Alkali Metals' and are not surprisingly metals. The physical properties of the group 1 elements are quite different from most other metals such as the transition metals.

a) Describe fully what you would observe if sodium is reacted with water.

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b) Give two ways in which the properties of the group 1 metals are not the same as most other metals.

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2. a) Explain how all group 1 metals must be stored and why the metals need to be stored like this.

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b) A small lump of sodium is very soft and can be cut with a knife.

i) Describe what the freshly cut sodium looks like.

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ii) What happens to the sodium after just a few seconds ?

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c) i) Write a word equation to show the reaction between sodium and water.

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ii) Write a fully balanced symbol equation for this reaction.

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