



1 Complete this table about the properties of group 1 metals and transition metals.

property	alkali metals	transition metals
melting points		
electrical and thermal conductivity		
hardness		
reactivity		
type of bonding in compounds		
charge on ions		
colour of compounds		
ability to be used as catalysts		

2 Lithium (Li) burns in oxygen (O₂) to form lithium oxide (Li₂O).

a Describe what you see in this reaction.

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b Explain, in terms of electrons, why this reaction takes place.

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c Write word and balanced equations for the reaction of lithium with oxygen.

word equation

balanced equation

d Explain why sodium, another group 1 element, is more reactive than lithium.

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