Worksheet 2.6.5 Exploring combustion

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1	Complete combustion >
a)	Set out the equation for complete combustion using some of the cards from the top half of page 3. Write the equation below.
b)	Which elements do hydrocarbons contain?
c)	Give three examples of hydrocarbons.
2	Incomplete combustion >>
a)	Explain why incomplete combustion may take place.

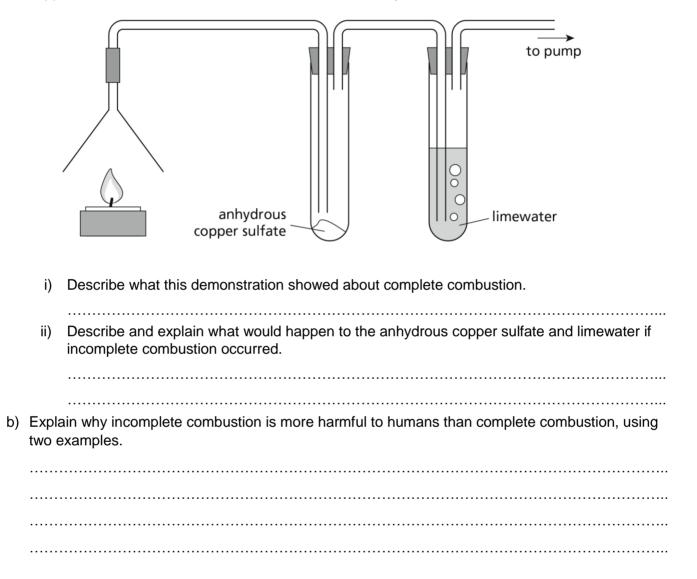
b) Write an equation for incomplete combustion. You can use the cards from the lower half of page 2.

c) Highlight in your equation the chemicals that are involved in both complete and incomplete combustion. Highlight in another colour those chemicals that are only involved in incomplete combustion.

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3 Comparing types of combustion

a) The apparatus below was used to show the products of complete combustion. The anhydrous copper sulfate turned blue and the limewater turned milky.



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carbon dioxide	water	hydrocarbon
carbon	oxygen	÷
\rightarrow	÷	÷

carbon monoxide	water	hydrocarbon
carbon	oxygen	carbon dioxide
\rightarrow	Ŧ	÷