

<b>Name:</b>	<b>Class:</b>
<b>Teacher:</b>	<b>Date:</b>

### Homework Activities

1. Give the chemical tests needed to identify the following:

a. Water	
b. Carbon dioxide gas	
c. Hydrogen chloride gas	

2. Write a chemical equation for the complete combustion of paper.

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3. State the problems of incomplete combustion.

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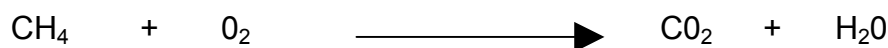
4. Give the names of the dangerous products produced during the combustion of polystyrene and PVC. Explain why they are dangerous.

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5. When hydrocarbons (organic materials that contain just carbon and hydrogen) combust they produce carbon dioxide and water.

a. Balance the following equations for the combustion of methane and octane.



b. Give a common use of methane and octane.

6. When a candle is completely combusted in oxygen, water and carbon dioxide are produced.

a. Explain what we mean by complete combustion.

b. Given that wax is made up of steric acid  $\text{C}_{18}\text{H}_{36}\text{O}_2$ . Write a balanced chemical equation for the reaction.

c. Given that 124g of stearic acid gives 396g of carbon dioxide. How much will 50g give. Show your method clearly.