

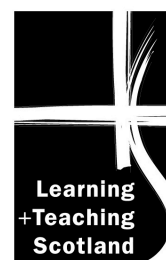
NATIONAL QUALIFICATIONS CURRICULUM SUPPORT

# Chemistry

## Consumer Chemistry

### Predicting Physical Properties of Molecules from Functional Groups

[HIGHER]



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### **Acknowledgement**

Learning and Teaching Scotland gratefully acknowledges this contribution to the National Qualifications support programme for Chemistry.

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## **Contents**

<b>Introduction</b>	4
<b>Questions</b>	5
<b>Answers</b>	19

## **Introduction**

This resource supports the Consumer Chemistry unit of the revised Higher Chemistry. The resource has the following purposes:

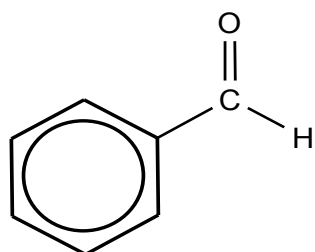
1. to allow students to become familiar with identifying functional groups within everyday molecules, some of which have complex structures
2. to enable students to relate intermolecular forces to the functional groups present
3. to enable students to explain the physical properties of molecules based on the functional groups present.

## Questions

### Question 1

Benzaldehyde is an aromatic compound with an almond-like smell, which is used in flavourings and perfumes.

Circle and name the functional group on the benzaldehyde molecule below.

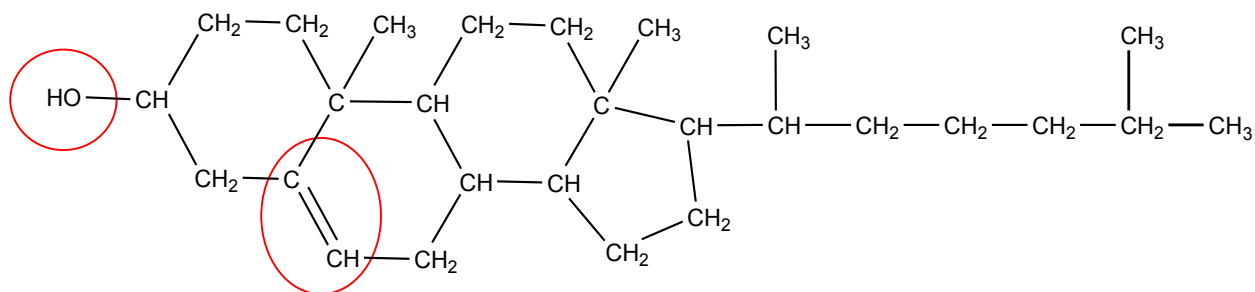


Benzaldehyde

## QUESTIONS

### Question 2

Cholesterol is an important molecule present in the human body. However, high levels of a certain type of cholesterol in the blood are linked with illnesses such as heart disease and strokes.



Cholesterol

- Identify the two circled functional groups on the cholesterol molecule.
- Explain why this compound has a high boiling point.