

Answer all the questions below as fully as you can then check your answers

- 1. What is a functional group?
- 2. Complete the table below to which shows common functional groups you are likely to meet, the first entry has been done for you

Homologous series	Functional group				
alcohols	С-ОН				
Carboxylic acids					
Aldehyde					
Ketone					
Ether					
Ester					
Amine					
nitrile					

3. What does the table below show?

Order of	Carboxylic	ester	nitrile	aldehyde	ketone	alcohol	amine	alkene	halogen
priority	acid								

4. Name the compounds below:

## Answers

- What is a functional group?
  Reactive part of a molecule that is responsible for its characteristic chemical properties
- 2. Complete the table below to which shows common functional groups you are likely to meet, the first entry has been done for you

Homologous series	Functional group					
alcohols	С-ОН					
Carboxylic acids	соон					
Aldehyde	CHO RCOR ROR					
Ketone						
Ether						
Ester	ROOCR					
Amine	NHR					
nitrile	RCN					

3. What does the table below show?

Order of	Carboxylic	ester	nitrile	aldehyde	ketone	alcohol	amine	alkene	halogen
priority	acid								

The ranking order of priority of functional groups we use when deciding on how to name a molecule with more than one functional group.

## 4. Name the compounds below:

3-bromopropan-1-ol

3-bromo-2-chloropropan-1-ol

4-bromobutanal

5-hydroxypentanenitrile

3-bromobutanoic acid

4-bromobutan-2-enal

4-chloro-3-oxobutanoic acid www.science-revision.co.uk