

You are the lucky student who has been chosen by the Manchester Metropolitan university to write a pamphlet for L3 students on isomers. Therefore your audience is other 18 year old students who have a knowledge of Chemistry.

You are asked to address the following questions:

- **Explain the different types of isomers and what are their industrial importance?**
- **Explain the chemical and therapeutic importance of isomerism.**

In order for the pamphlet to be easy to read but informative you will need to address the following points below:

	Isomers	
Introduction	What isomers are?	
	Have you explained what structural isomerism are? ● Explain what they are ● Cited diagrams	
	Have you explained chain isomerism ? ● Explain what they are ● Cited diagrams	
	Have you explained the properties of chain isomers ?	
	Have you explained positional isomers ? ● Explain what they are ● Cited diagrams	
	Have you explained functional group isomers ? ● Explain what they are ● Cited diagrams	
	Have you explained the properties of functional group isomers ?	
	Have you explained stereoisomerism e.g. Geometric (cis/trans or E/Z) Isomerism ?	

	• Explain what they are • Cited diagrams	
	Have you explained properties of E/Z isomers?	
	Have you explained optical isomerism ?	
	Have you explained the three-dimensional structures and representations of optical isomers ?	
	Have you explained examples of isomers in nature of Cis/Trans isomers?	
	Have you explained optical isomers of sugars?	
Isomers in nature	Have you explained optical Isomers of Amino Acids ?	
	Have you explained the difference between starch and cellulose ?	
	Have you explained the Chirality and Function in enzyme activity in humans?	
Industrial importance of isomers	Have you explained you compared the different types of isomers and their industrial importance	
	Have you explained the different therapeutic effects of optical isomers of drugs	
	Have you explained the different therapeutic effects in pharmaceuticals ?	
	Have you explained the implications for drug development ?	