

Chirality

Pre-lesson assignment – Textbook pg 480-482

Define the following key terms

- Stereoisomer
- Optical Isomerism
- Chiral centre
- Enantiomer

Make notes on chirality

Use the following questions to structure your notes.

1. Under what conditions does a molecule exhibit optical isomerism?
2. Explain why all α -amino acids exhibit optical isomerism except glycine (R = -H)
3. Draw the two enantiomers of butan-2-ol using 3D notation. Show clearly how they exhibit mirror-symmetry.
4. Identify the chiral centre(s) in the following molecules by marking them with an asterisk (*):

