Stereoisomerism in complex ions

Textbook page 409-412. You may also wish to revisit Y12 stereoisomerism, p.203-205 and Chirality in Y13 480-481.

Define the following terms

- Stereoisomerism
- · Optical isomerism

Make notes on complex ions.

Use the following questions as a guide

- 1. Show how cis-trans isomerism can be observed in square planar complexes. You may wish to base your explanation using figure 2.
- 2. Show how complexes with two different monodentate ligands can be cis-trans isomers.
- 3. Show how complexes with two different bidentate ligands can be cis-trans isomers.
- 4. Show how cis isomers of complex ions with two bidentate ligands can be optical isomers.
- 5. Show how complexes with three bidentate ligands can be optical isomers.