

Transition metal complexes

Guidelines for the work in groups

What you have to do

You are going to study one aspect of transition metal complexes.

You will be assigned to a group where you will all become **Expert** in one of the following topics:

- a. *the bonding in complexes, including those with polydentate ligands*
- b. *how to name complexes*
- c. *the shapes of complexes*
- d. *ligand exchange and stability constants.*

Tasks in the **Expert** group

In your group, help each other prepare to teach the other students in the class about your topic.

- Read about your topic.
- Discuss the teaching process:
 - o *What are the main points to get over?*
 - o *What additional points do I need to include?*
 - o *What diagrams will help me explain my ideas?*
 - o *What sequence will I teach points in?*
 - o *What questions can I ask to make sure that other students have understood?*
- Make brief notes that will help you teach your topic.
- Write questions to ask other students.
- Draw useful diagrams (perhaps on a mini whiteboard).

Ground rules in the **Teaching** group

In the **Teaching** group, there is one person from each of the four different **Expert** groups. Each **Expert** takes turns to explain their topic.

- While someone is talking, everyone else must listen and take notes.
- The **Expert** will ask questions to check that everyone understands.
- Other students can ask questions if something is not clear.
- All students must write notes on all four topics.