1. Make the model
2. No
3. B and D
4. ![Chemical Structures]
   a) trans  trans  cis
   b) No
   c) A x B
   d) Both are trans and they are mirror images of one another

5. Chiral: hand
   Not chiral: sugar cube

6. Gloves

7. a) enantiomers  b) diastereomers  c) diastereomers

8. False
   Example: ![Molecule Diagram]
   These are compounds (we will talk more about them)
9. True

10. Molecular plane dividing the spheres in halves.

11. Plane formed by the middle point of the line between identical balls (black) and no identical balls (grey and white).

I have a C atom with 2 identical substituents.

Plane formed by $C + 2 \neq$ substituents.

12. Carbons 'see' the same environment, there is a symmetry plane.

13. a) Going into page.
   b) See chem activity page.

14. c1

   d1
14. b) The CH₂CH₃ wins over CH₃

15. 1st point of OH vs H

16. we don't need to put lower priority on the back as H is already on the back

17. Changes from R to S or vice versa