

Build an Organic Molecule

Unit 5: Organic Chemistry Assignment

Your task is to build a physical model of an organic molecule. The molecule must have 10 or more atoms. If it does not, you may build more than 1 of the molecule so you have a total of 10 or more atoms. This is an individual assignment. There will be a sign up sheet in the classroom. No 2 students should have the same molecule.

In addition to your molecule, you will create a data sheet that will have some info about your molecule as well as a legend for your model. Pretend your model is featured on display at the Science Centre. What would you want a passerby to know about your molecule? Data sheet should be a single 8.5x11 sheet of paper.

Have some fun with this assignment! It's a great opportunity to learn about organic chemistry by choosing a molecule that is interesting to you. Many different materials can be purchased

A. Molecule chosen: _____ [/5 K marks]

- Molecule is an organic compound
- Molecule has more than 10 atoms (or you have chosen to build more than 1 molecule)

B. Molecular Model [/25 A marks]

- Model is an accurate representation of chosen molecule
- Model an appropriate size and constructed from appropriate materials (so it doesn't fall apart)
- Atoms are different colours or sizes depending on their type
- Single, double and triple bonds are visible

C. Molecule Data Sheet [/10 C marks]

- Both IUPAC and common name listed large and obvious to the reader
- Short description of IUPAC naming included (point form or paragraph)
- Uses of molecule summarized
- Sources of molecule summarized (or how it is synthesized)
- Environmental/health impacts of molecule summarized
- Any other interesting facts summarized
- Relevant pictures included
- Legend to identify different types of atoms in model included
- Data sheet is on a single 8.5x11 sheet of paper
- Data sheet organized, easy to follow and aesthetically pleasing
- All sources referenced and included in footnotes

Make sure to hand in this marking scheme along with your assignment.

Comments: