

# Key Terms

Pre-lesson assignment – Textbook page 172-173

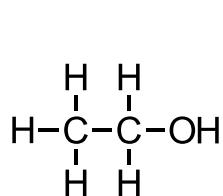
## Define the following terms

- Hydrocarbon
- Saturated
- Unsaturated
- Homologous Series
- Functional Group

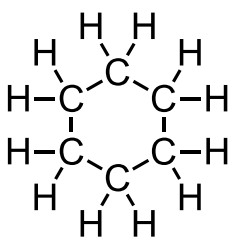
## Make notes on the key terms above

Use the following questions as guidance

1. Explain why cyclohexane is a hydrocarbon but ethanol is not.

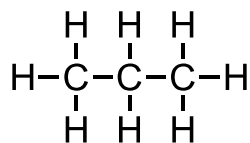


Ethanol

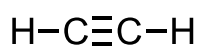


Cyclohexane

2. Explain why acetylene is unsaturated but propane is not.

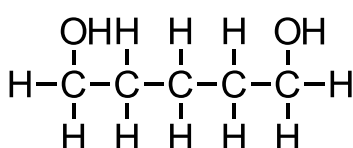
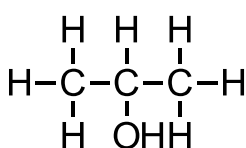
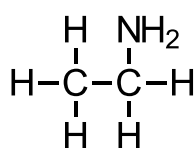


Propane



Acetylene

3. Copy (or cut out) the structures below and circle the functional group(s) on each.



4. Explain why the following sequence of chemicals is a homologous series. Demonstrate that the series fits the definition by working out the molecular formula of each molecule (e.g.  $C_xH_y$ )

