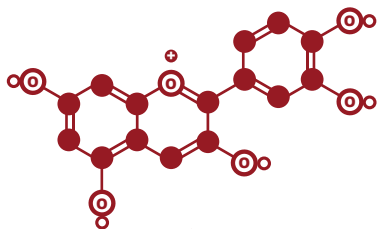


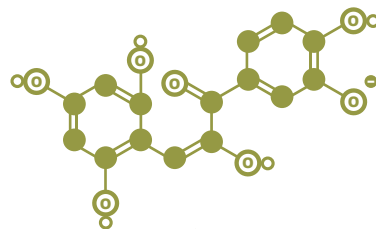
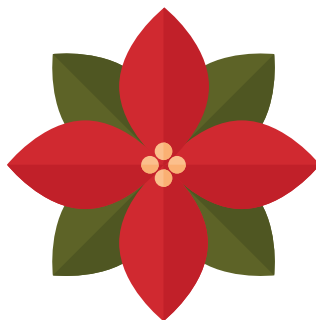
# CHEMISTRY ADVENT 2017

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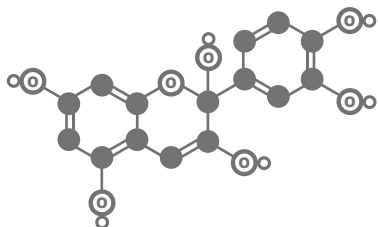
## POINSETTIA PLANT INDICATOR



RED (AT pH <3)



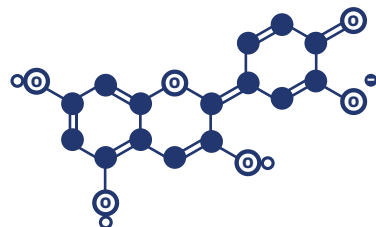
YELLOW GREEN (AT pH >8)



COLOURLESS (AT pH 3-4)



VIOLET (AT pH 4-7)



BLUE (AT pH 7-8)

● Carbon    ⊖ Oxygen    ○ Hydrogen

*Hydrogens on carbon atoms implied; each carbon has 4 bonds.*

Poinsettias are often sold in the run-up to Christmas; as well as looking colourful they can also be pH indicators! The anthocyanin compounds that give the leaves their red colour can be extracted by boiling the leaves in water. This extract will change colour in solutions of different acidities or alkalinities, as shown above.



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