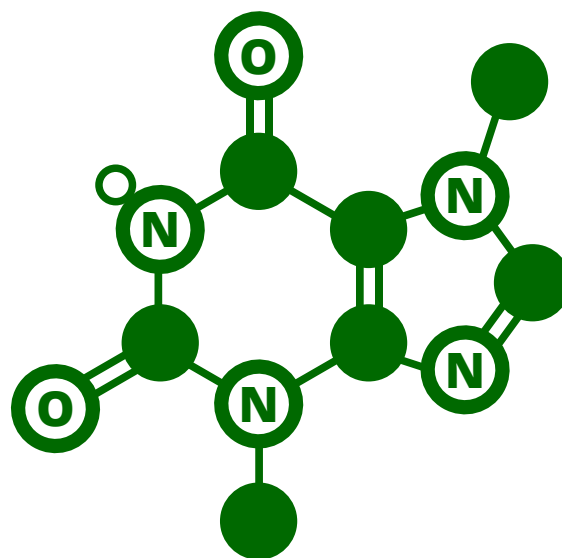
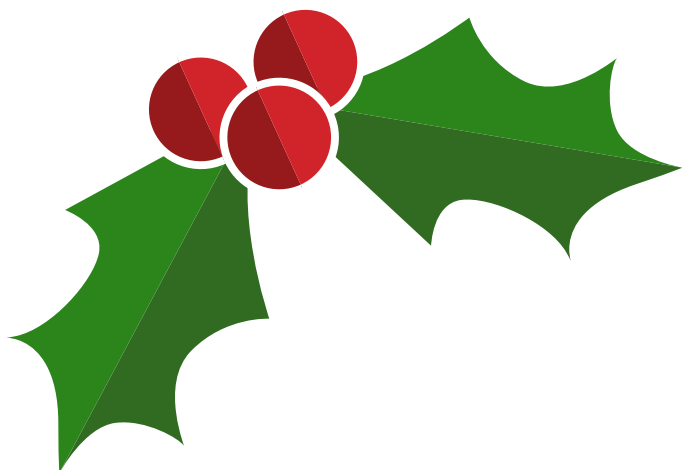


# CHEMISTRY ADVENT 16

## THE HOLLY AND THE IVY

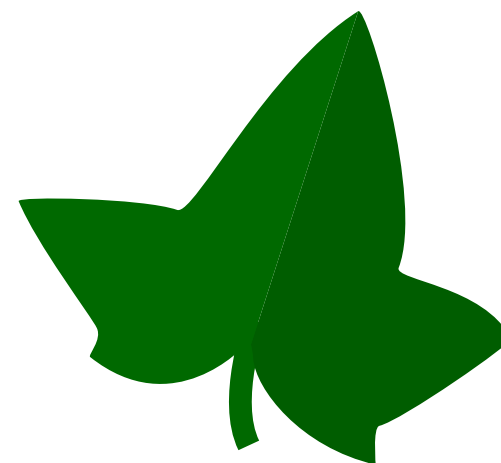
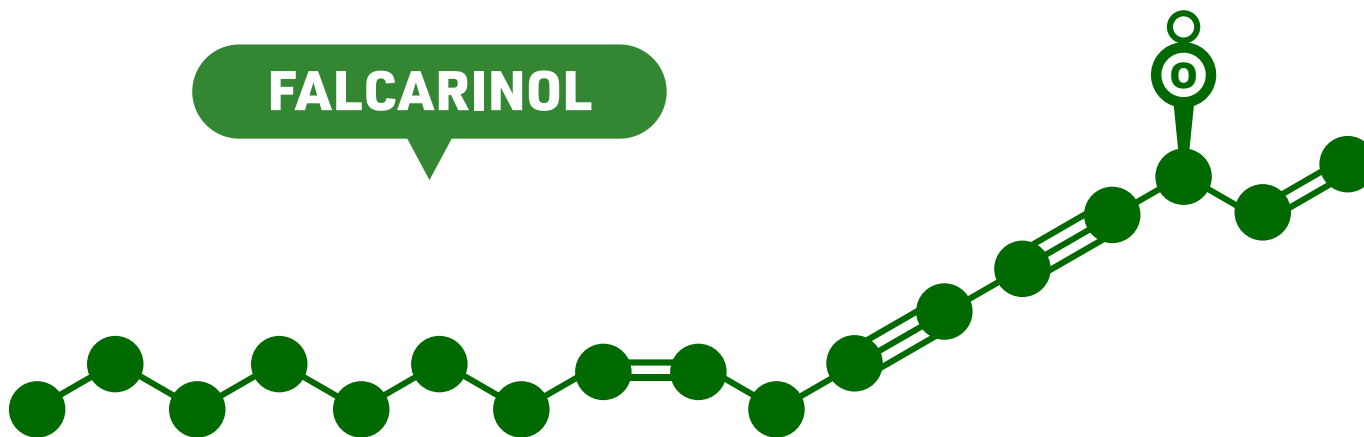


### THEOBROMINE

- Carbon
- Oxygen
- N Nitrogen
- Hydrogen

*Note: hydrogens on carbon atoms implied; each carbon has 4 bonds.*

### FALCARINOL



Holly berries contain bitter compounds called alkaloids, making them mildly toxic if eaten. One of these alkaloids is theobromine, also found in chocolate in small amounts. Common ivy contains a compound, falcarinol, which can cause moderate allergic reactions in some people on skin contact. This differs from the compound found in poison ivy, urushiol, which can also irritate the skin.

