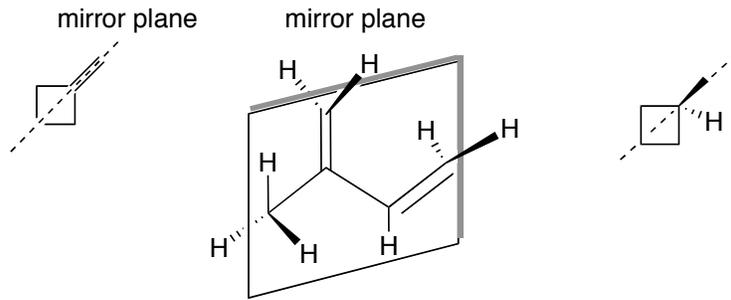
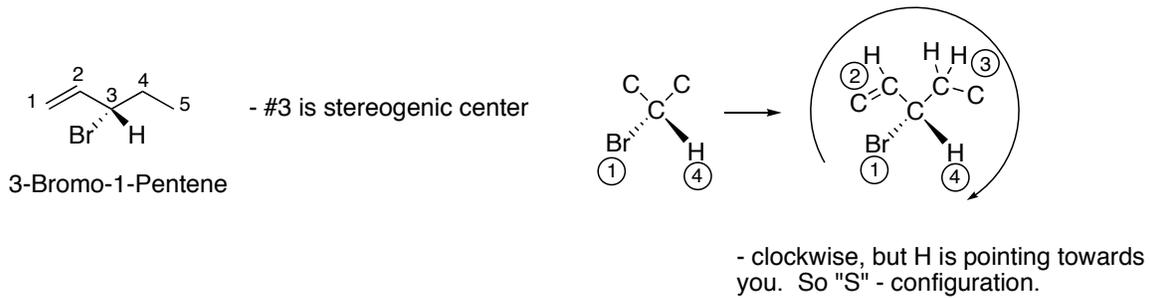


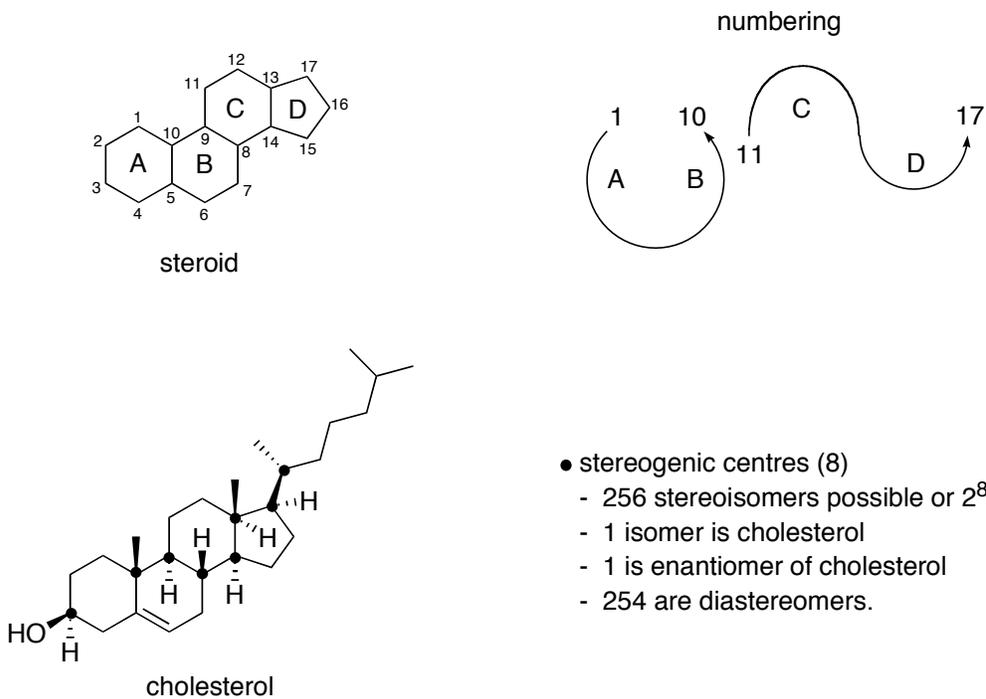
- If you have a mirror plane of symmetry within molecule → Achiral



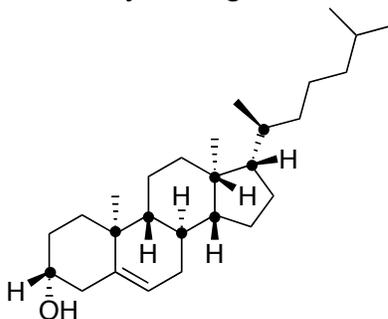
R + S Nomenclature



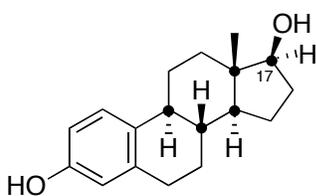
Cholesterol



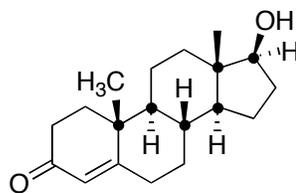
- To draw enantiomer – invert every stereogenic center.



- To draw diastereomer, invert 1 or more but not all stereogenic centers.

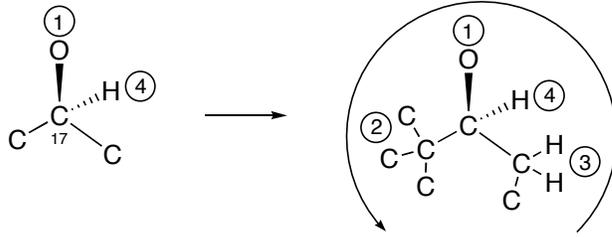


estradiol - primary female sex hormone

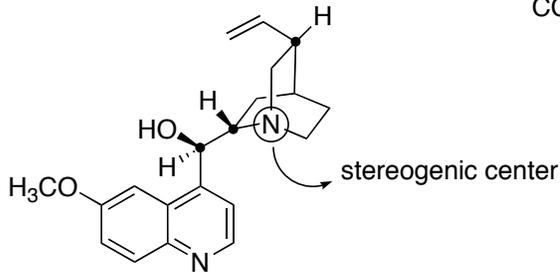


testosterone - primary male sex hormone

- look at C-17 of estradiol, Assign R/S

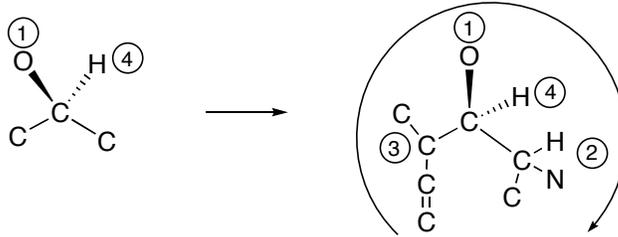


CCW - S-configuration



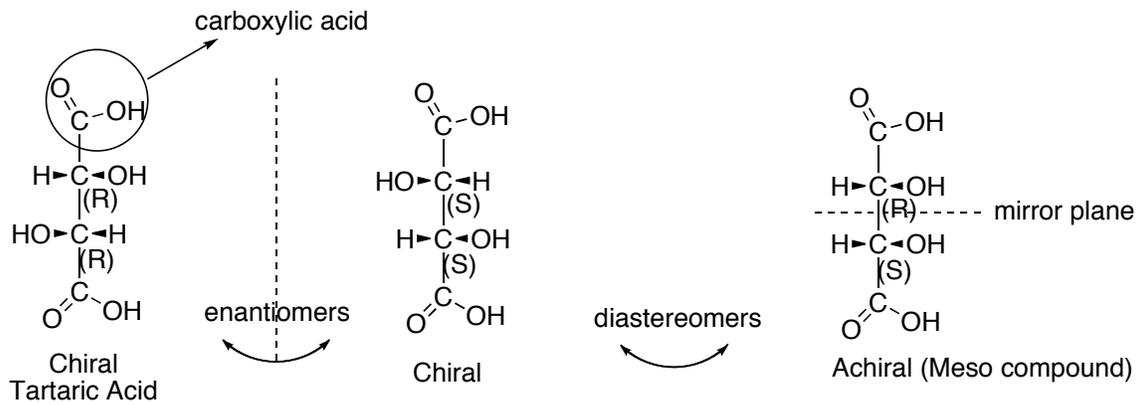
quinine - anti-malarial drug
from the bark of the tree
Cinchona officinalis

Ether C-O-C
Amine C-N-C
H
Alcohol -OH



CW - R-configuration

at alcohol carbon



- Meso compound has stereogenic centres but is achiral (plane of symmetry within)