

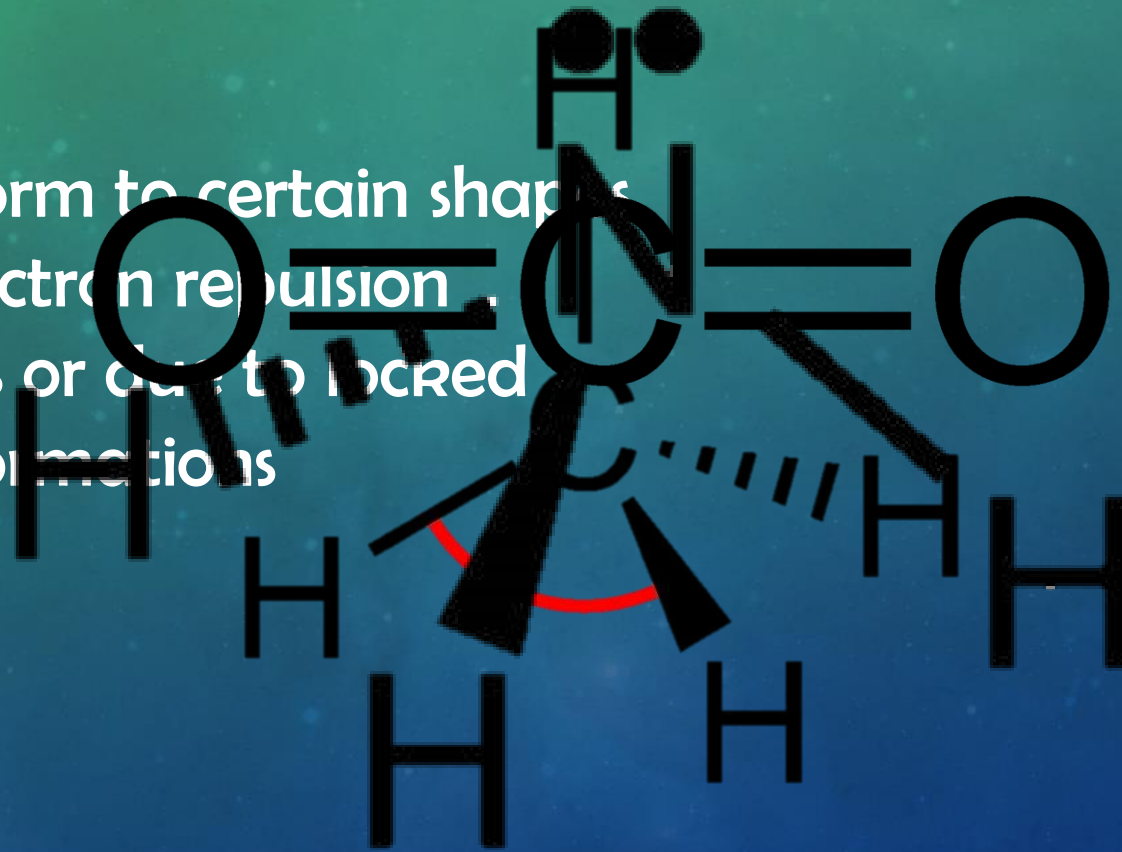
The background features a gradient from light green at the top to dark blue at the bottom. Overlaid on this are several faint, white circular elements. A large circular scale on the left side has numerical markings from 140 to 260 in increments of 10. Other circular patterns, some with arrows indicating direction, are scattered across the upper and lower portions of the image.

# CYCLOHEXANE

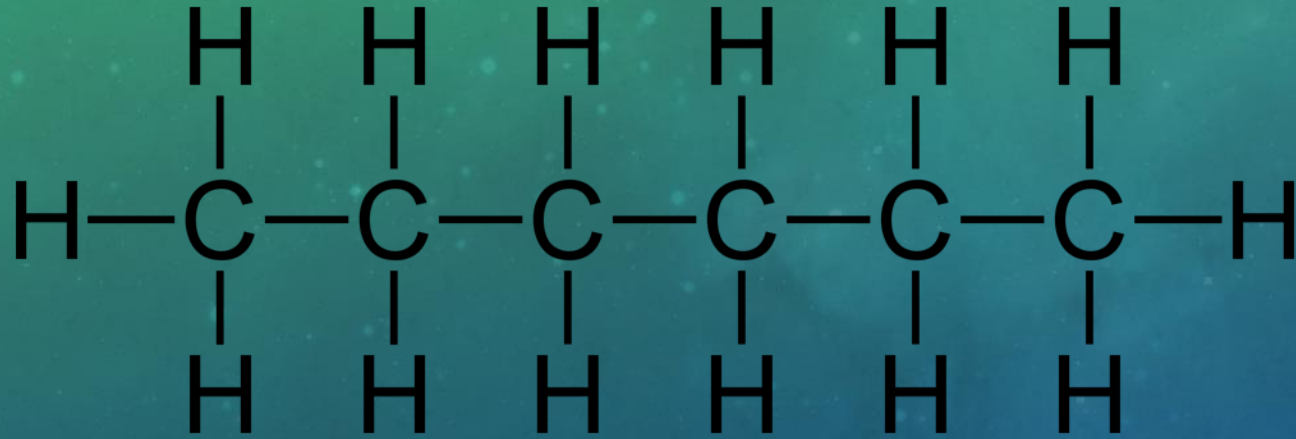
A STUDY IN FORM, FUNCTION, AND BEAUTY

# THE IMPORTANCE OF BOND ANGLES IN CHEMISTRY

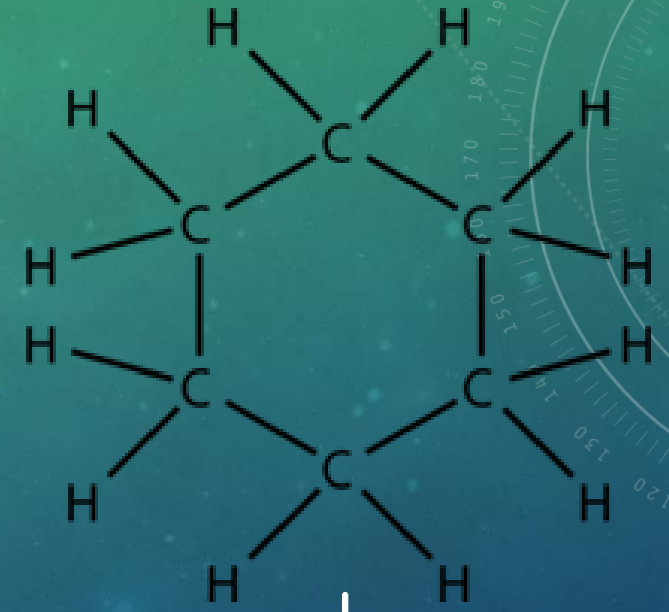
Molecules conform to certain shapes to minimize electron repulsion between atoms or due to locked structural conformations



# CYCLOHEXANE VERSUS LINEAR HEXANE







$109.5^\circ$



$\sim 109.5^\circ$

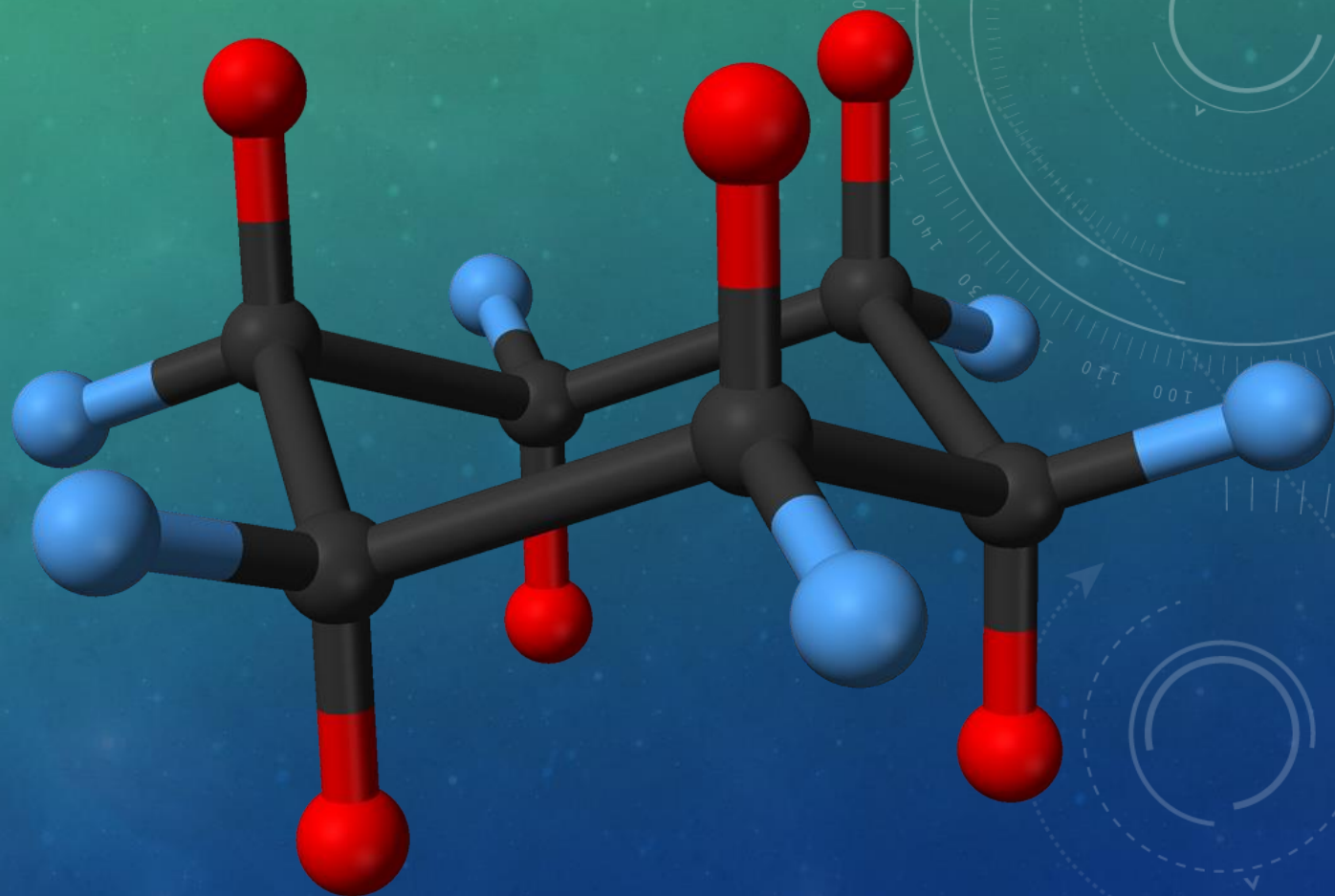
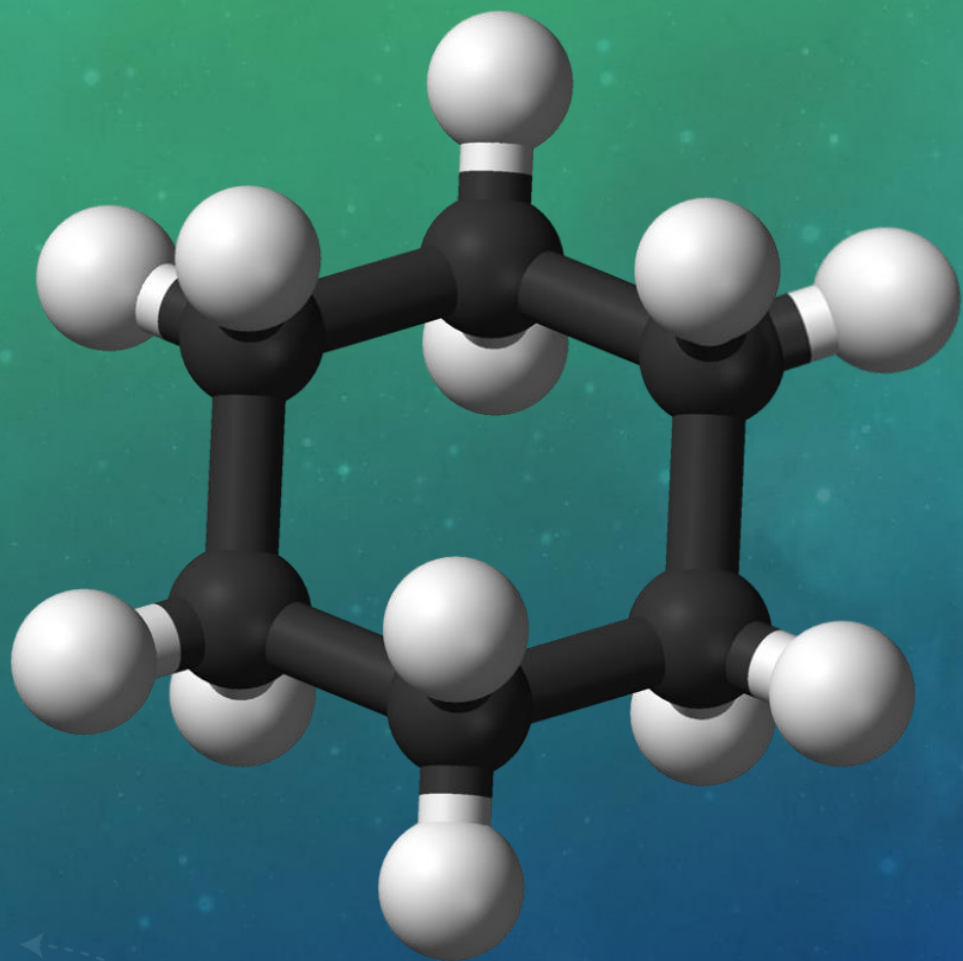


# CYCLOHEXANE VERSUS LINEAR HEXANE

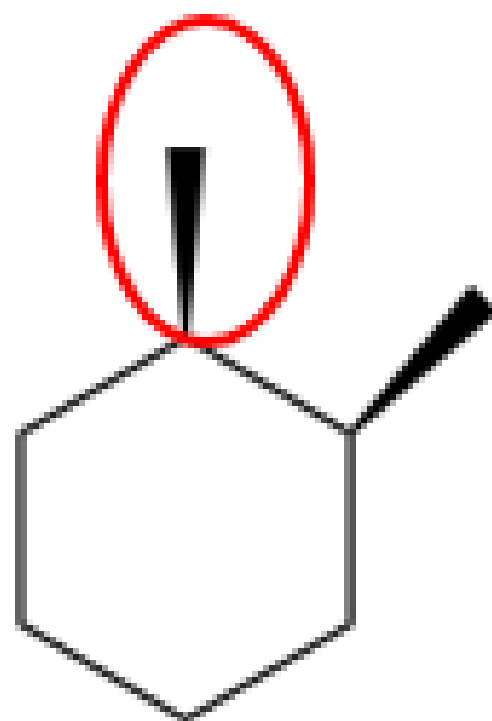
Structure	Molecule	Bond angle
	Cyclopropane	$60^\circ$
	Cyclobutane	$90^\circ$
	Cyclopentane	$108^\circ$
	Cyclohexane	$109.5^\circ$

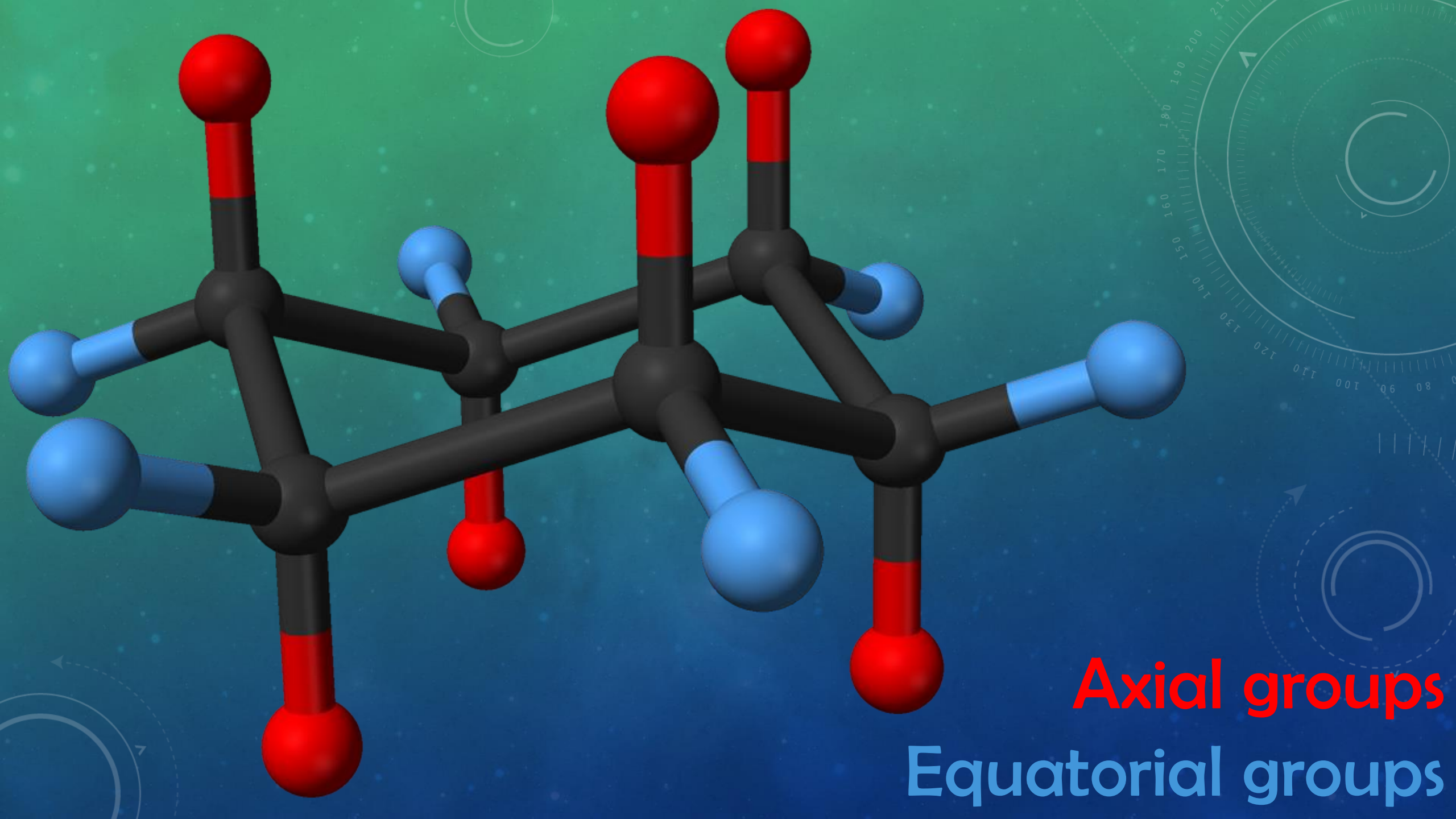






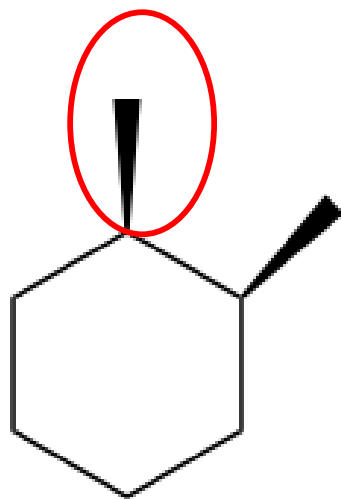
Substituent



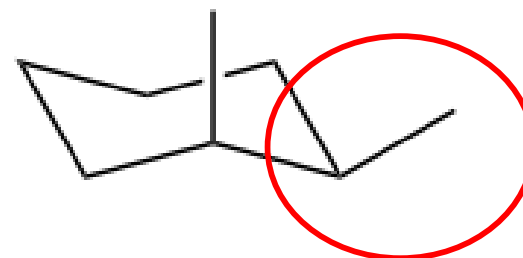
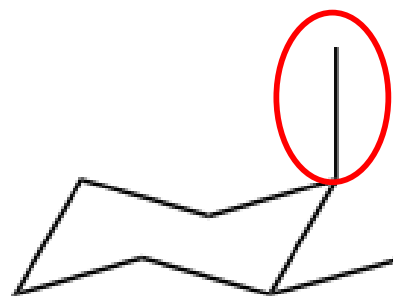


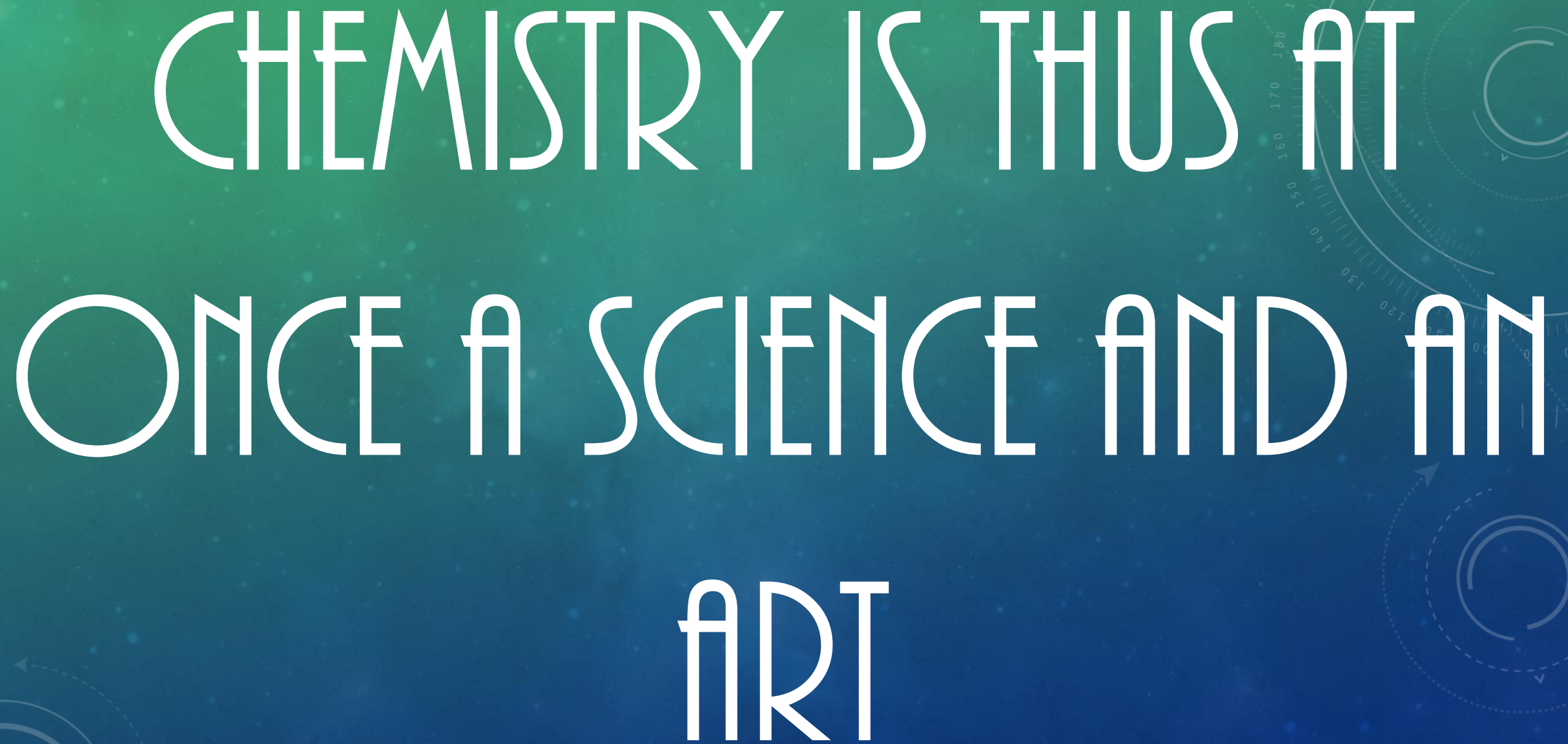


Substituent



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CHEMISTRY IS THUS AT  
ONCE A SCIENCE AND AN  
ART