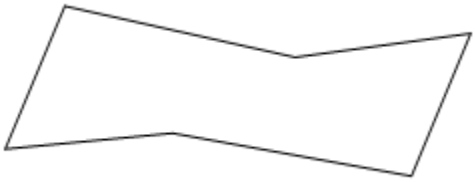
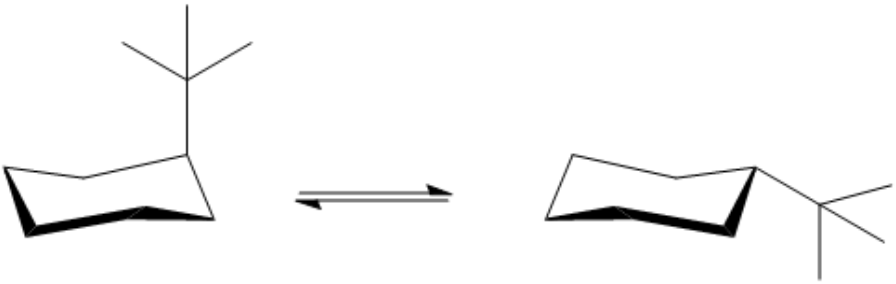
CONCEPT: CYCLOHEXANE: EQUATORIAL PREFERENCE

One of the two positions is much more crowded or _____ _____ than the other.



● Rings will ALWAYS "flip" in order to accommodate the preference of their largest, bulkiest substituent.



When chairs flip:

□ Axials become _____ □ Equatorials become _____

EXAMPLE: This chair is not in its most stable conformation. Draw the chair flipping to accommodate equatorial preference

a.

PRACTICE: Drawing Equatorial Preference

1. Draw the MOST STABLE conformation of cis-1-tert-butyl-4-methylcyclyhexane

2. Draw the LEAST STABLE conformation of trans-1-tert-butyl-3-neopentylcyclohexane.