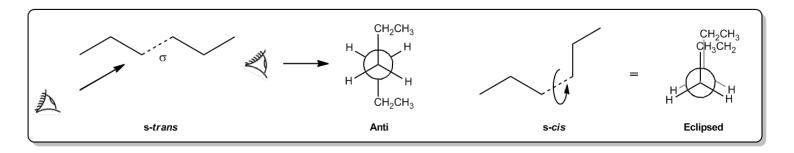
CONCEPT: NEWMAN PROJECTIONS

Newman projections are drawings used to help us visualize all the conformers that can be made by rotating a ____ bond



- ☐ The <u>dihedral angle</u> _____ is used to describe rotation around a single bond
 - Calculated by taking the angle of the largest group on the front and back relative to each other

 θ = ____ : The two largest groups *overlap* each other ____ energy

 θ = ____ = ____: The two largest groups are *adjacent* to each other

_____ energy

 θ = ____ = ____: The two largest groups are *opposite* to each other

EXAMPLE: Plot the following dihedral angle values with their respective energy to determine the energy diagram for the rotation of hexane along the C3 – C4 bond.

