flipped over... and rotated...

(1R, 2R, 4R)-1,2,4-trimethylcyclohexane

still the same molecule....

(3S, 6R)-3,6-dichloro-2-methyloctane

or flipped over and viewed from the other side....

or a different bond rotation

notice how the labels are still the same

This one was REFLECTED - leading to a totally different, enantiomeric compound

labels changed at chiral sites

some alkyl groups worth knowing for simplification:

(1S, 3S)-1,3-dibromo-1-isopropyl-3-methylcyclopentane

(2S, 6R, 4Z)-6-bromonon-4-ene-7-yne-2-ol

(1S, 3S)-1,3-dibromo-1-isopropyl-3-methylcyclopentane

(3S, 6R)-3,6-dichloro-2-methyloctane

or flipped over and viewed from the other side....

or a different bond rotation

notice how the labels are still the same

This one was REFLECTED - leading to a totally different, enantiomeric compound

labels changed at chiral sites

some alkyl groups worth knowing for simplification:

isopropyl vs. propyl

isobutyl vs. tert-butyl

sec-butyl vs. isobutyl

Main chain vs. Main chain

Main chain vs. Main chain

Main chain vs. Main chain