MODELING ISOMERS
Build the following models, draw them in your BILL. Then answer the ?’s

 1. How are isomers different from isotopes?

GEOMETRIC ISOMERS
Make a model of a MOLECULE WITH 1 double bond between 2 CARBONS
Make a model of a GEOMETRIC isomer for this molecule.
DRAW a picture of your isomers in your BILL. LABEL *cis* and *trans* forms
 2. What does *cis* and *trans* mean?

 3. STRUCTURE-FUNCTION:
 How does the presence of a cis-double bond affect
 the SHAPE of the retinal molecule AND its FUNCTION?

MIRROR-IMAGE ISOMERS (ENANTIOMERS)
Make a model of a 1 carbon molecule that has an ASYMMETRIC CARBON.
Make a model of an ENANTIOMER isomer for this molecule.
DRAW a picture of your isomers in your BILL.
 4. What is an asymmetric carbon?
 5. Give an example of enantiomers that have different biological properties.