

CHAPTER 14	Investigation 14.B: Modelling Organic Compounds Answer Key	BLM 14.2.8A
ANSWER KEY		

Answers to Analysis Questions

1. The addition of a multiple bond eliminates the ability of a bond to rotate.
2. The addition of a multiple bond causes the molecule to take on a more linear shape.
3. Benzene is more planar than cyclohexane.
4. Molecules with multiple bonds are more difficult to construct. There is more stress in a multiple bond. Molecular model kits require flexible links to allow for construction of multiple bonds.

Answers to Conclusion Questions

5. The effect of an increasing number of multiple bonds is to make a molecule much more linear and more rigid.
6. Both carbonic acid and carbon dioxide do not contain any carbon-carbon bonds.