

Ammonia, Methane and Water

Name _____ Date _____ Period _____

Introduction: This project is to help you get a better understanding of the different shapes of molecules. You may do this project on a poster board, make molecules, or do a power point. Be creative and make a great looking project.

The items you need to show on your project are:

1. Show the 2-dimensional (using just bonds and electron dots) structures of water, ammonia, and methane.
2. Show the 3-D molecular shapes of water, ammonia, and methane.
3. Show the 3-D molecular geometries of water, ammonia, and methane. Label the geometries with their corresponding names of bent, trigonal pyramid, and tetrahedral.
4. Label the important and major characteristics of water, ammonia, and methane. Don't forget to talk about their polarities as one of the major characteristics.

This assignment is worth 30 points and will be graded on appearance, creativity, and correct content. You will be presenting your project to the class on _____ for A day and _____ for B day. No late projects will be accepted because you are getting such an advance notice.

Looking forward to seeing your great projects!