Nano-Module 1: Exploring the Properties of Water (H_2O)

Concept	What words come to mind? Properties? Definition?
Water	
Universal solvent	
pH	
Acid	
Base	
Hydrogen Bonding	

Nano-Module 2: Understanding Chemistry through Molecular Models

Ionic Bond	Covalent Bond
metal to nonmetal	nonmetal to _____
Electrons _____	Electrons shared

Type of Molecule	# of Atoms in Molecule	Examples
Monatomic		
Diatomic		Of same element: Of different elements:
Polyatomic		Of same element: Of different elements:

Type of Bond	# of electrons shared	# of electron pairs
Single		
Double		
Triple		

Nano-Module 3: Carbon Chemistry

Carbon Compound	Properties
Graphite	
Fullerene	
Diamond	

Isotopes of Carbon				
	# protons	# electrons	# neutrons	Radioactive? Yes or No
C_{12}				
C_{13}				
C_{14}				

Biomolecule	Function	Examples
Carbohydrate		
Lipids		

Name: _____   **Group:** _____   **Date:** _____

Report Template:

Introduction: (What do you expect to learn? What is the purpose of this module?)

Materials: (What equipment and material did you need for this module? Include any special hardware and software.)

Procedures: (What steps did you take to accomplish this module?)

Discussion: (Discuss what happened in the modules classes. Give details on anything that went wrong.)

Conclusion: (Summarize everything you learned. How did this help you in visualizing chemicals? How does this compare with your expectations for this module?)