

BIOLOGY BASICS UNIT 1- LESSON PLAN

Topic	Biology Basics
Lesson Title	Properties of Water
Lesson Number	1 -5a
NGSS Standards	<ul style="list-style-type: none"> • <i>HS-ESS2-5</i>. Plan and conduct an investigation of the properties of water and its effects on Earth materials and surface processes.
Learning objectives:	<ul style="list-style-type: none"> • Describe the importance of water to living things. • Name and describe the bonds which exist between the atoms of water molecules and other water molecules in a volume of liquid. • Explain the properties of water which exist due to the bonding and shape of the water molecule.
"I can" statement:	<ul style="list-style-type: none"> • I can describe why water is important to living things and the structure of the water molecule which creates some of its physical properties.
Prior Knowledge:	
<ul style="list-style-type: none"> • Structure of the atom • Types of bonding 	
Vocabulary:	
Covalent bond, Hydrogen bond, Molecular geometry, Phase change, Polar molecule, Valence shell,	
Summary of Activities:	
<ol style="list-style-type: none"> 1. Distribute and complete bell ringer activity. 2. Discuss guided notes and slideshow, with students. 3. Vocabulary worksheet 4. Exit quiz 	
Additional Resources:	
<ul style="list-style-type: none"> • See online activities 	
Homework:	
Homework assignment task	
Assessment:	
<ul style="list-style-type: none"> • Bell work • Assignment • Exit quiz • End of unit review 	