

- 1. What is the difference between horns and antlers?
- 2. What is the chemical formula of water?
- 3. What is one quality of water that makes it important for life?



Virus – Is it alive?





Virus – Is it alive?

 Take a stand, and BE PREPARED TO DEFEND YOUR POSITION USING EVIDENCE

Life

 Water is a requirement for life (at least on Earth)

Section 2.1 The Nature of Matter

- This section is a review of last year
- If you don't remember the words: atom, molecule, covalent bond, ionic bond
- Then you need to do the interactivity in chapter 2 section 1 called "Types of Bonding"

 Water is a requirement for life (at least on Earth)



 To begin learning about the reasons water is so important we will test prior knowledge with a formative assessment

- Title page 10 "Water"
- Make a table with 10 rows, and 3 columns

PICTURE	BEFORE	AFTER
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		





















- Gather around and watch a demonstration
- Demonstrate your observation skills and PAY ATTENTION, you will learn vocabulary

• Now let's look at those pictures again and revise our answers





















- 1 minute:
 - Look over your Unit 1 Cover Sheet
 - Make any notes you would like to
 - Go over the vocabulary we have learned so far

Polar: Atoms of a molecule have unequal pulls on electrons, creating a positive end and a negative end



Non-polar: Electrons are shared equally creating no pulls or poles



Hydrogen bond: attraction between a partial positive H and a partial negative atom (form between water molecules)



Covalent bond: forms when atoms share electron pairs



- Bonds inside of water molecules
 = covalent
- Bonds between water molecules
 = hydrogen

Cohesion: Water molecules are attracted to water molecules



Surface tension: Water molecules at the surface are more attracted to each other than to other molecules (air)



Magic of Water Adhesion: Water molecules are attracted to other molecules



Capillary Action: Movement of water through tubes and porous materials





Cohesion







How To Make A Solution



Magic of Water pH scale: acid = <7, high [H+] base = >7, high [OH-]





- If you bought goggles or are planning to buy them:
 - Bring up your receipt to get your goggles
 - Find a partner you trust
 - Sign up for a lab drawer