

HYDROFE ON WATER

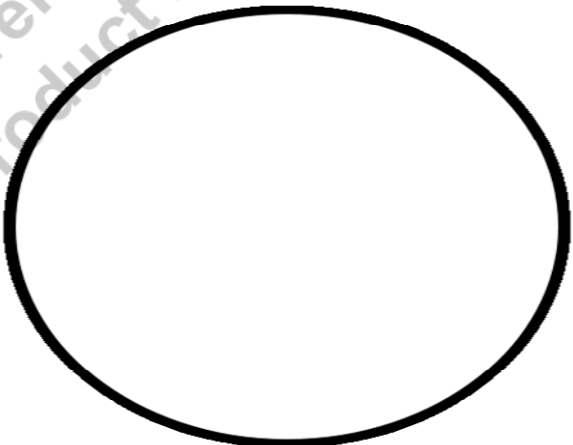
(Opportunity for Excellence)

Name:

Due:

Please provide examples of ways human use water in the boxes below.

Warning! 4 part question. Please complete a pie graph below showing the locations of earth's water. Make sure that your graph includes all the places water is located on earth. Include % in the margin and provide a brief statement about whether humans can use it for drinking and agriculture.


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What does the photo on the right mean to you now that you have studied drought and famine in Somalia?



Use the boxes below to describe some ways at home you can conserve water. Visit the internet if you are struggling.

Please draw and label the most accurate molecule of H_2O possible in the box on the right. Please include two atoms of hydrogen, and one of oxygen. A strong answer will also include both + and - charge.

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Please describe the property of water on the right? A strong answer will focus on polarity.

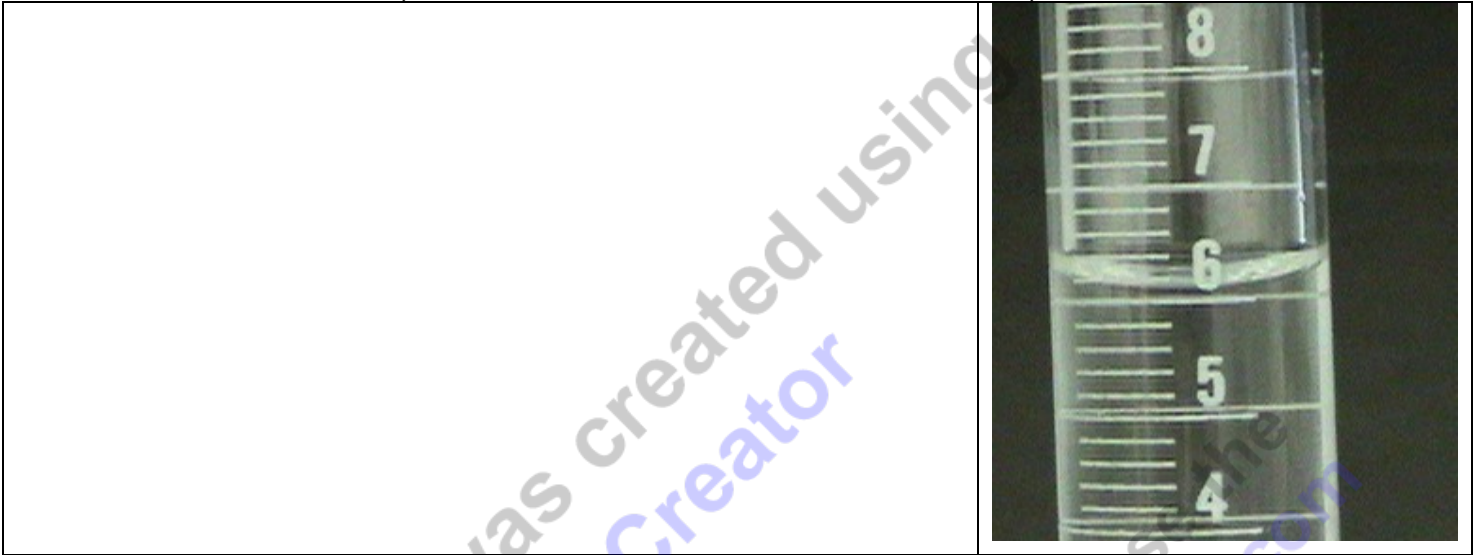


Please describe the property of water shown below. Why does the water form these droplets?

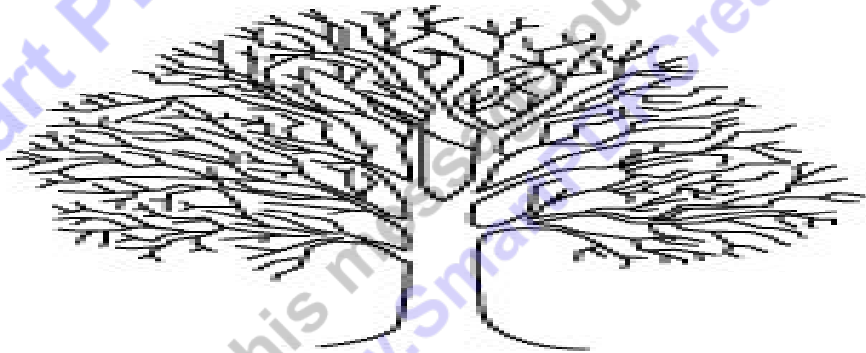


2004 dtdo

Caution! This is a three part question. What is this, what property of water does it demonstrate, and how do you measure the amount of water in this cylinder?



Please draw arrows showing where the water in this picture will go? What is the name of this type of phenomenon? What property of water causes it? What do know about plant biology?



The leaf below used to be green but is now changing colors. How could you separate a leaf into all of its different colors?



What property of water can be seen in the photograph below? Please draw another example of this property of water in the space next to this wake boarder.



Please number the order that the following will likely freeze in the winter 1-4



At what temperature does water boil and freeze in degrees Celsius.?

Boils - _____ Celsius

Freezes - _____ Celsius

Why is the temperature above important? _____

Please demonstrate your knowledge of lake-turnover in the space below.

Summer Stagnation	Early Fall
Late Fall	Winter (please include an example of the lower density of ice)

Please fill in the pH scale below with information regarding acids and bases.

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What are some common Acids? What can they be used for? _____

You are a biologist, and you are asked to investigate a pond that is void of most pond life? What should you do?



Why is it so important to life that most things dissolve in water? _____

Please use these shapes below to represent the mixtures.



Homogeneous

Heterogeneous



Please use the jar below to create a heterogeneous mixture. Please describe which ingredient is a solvent and which is the solute. Please describe solubility and make a reference to when a mixture becomes supersaturated.



In the following square, please create a cartoon that teaches something about water.



GREAT WORK! PUT THE HYDROFE IN YOUR FOLDER UNTIL IT IS DUE!