



NEW YORK CITY DEPARTMENT OF EDUCATION

Thomas A. Edison Career & Technical Education High School

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AP Biology Summer Assignment Instructions

Congratulations! You are on your way to taking AP Biology next school term. This is where the hard work begins. This assignment builds a foundation of knowledge that we will require in order to make sense of all the concepts and knowledge that make up the material for the AP Biology Exam. You may find some of this material familiar from The Living Environment. You may also find a lot of things to be unfamiliar. Do not fear, take your time with the assignment and utilize any resources listed on the AP Biology 2018-2019 Google Classroom Page (see instructions below for how to “join” the class).

You will be tested on this material during Marking Period 1, Term 1 of the 2018-2019 school year.

I look forward to meeting you all again in September!

So, to summarize:

- Go to classroom.google.com, log-in, click the (+) and “Join a Class.” Enter this class code: e97b0x
- Take a deep breath
- Complete Assignment
- Take Summer Assignment Exam in September.

Good Luck!

Mr. Hansen

Name:
AP Biology Summer Assignment

2018-2019
Mr. Hansen

VIDEO GUIDE FOR BOZEMAN BIOLOGY - WATER AS A POLAR MOLECULE

Electronegativity means _____

Oxygen is unique because _____

Why does water behave like a magnet?

The bond between oxygen and hydrogen **within** a water molecule is a _____ bond

The bond between oxygen and hydrogen on **different** water molecules is a _____ bond

Draw the hydrogen bonds between the five water molecules show at 3:48 (pause the video here!

_____ is a polar molecule, _____ is a nonpolar molecule.

Describe the five properties of water that are due to its polarity

Property	Description	"real life" application of this property
High specific heat		
Solvent		
Cohesion		
Capillary action		
Ice floats		

Why is Seattle warmer in the winter than Yellowstone, even though both locations are at similar latitudes?

How does water get to the top of a tree?

Why is it "good" for aquatic organisms that live in cold climates that ice floats?