**APES Calendar Unit 1**

*This is a college level course that entails significant independent reading. It is strongly suggested that you complete your unit study guides as you read. Remember Lab Composition Book includes all labs, activities and bellringers and Study Guide Composition Book include unit study guide.*

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| **Monday, August 18** | **Tuesday, August 19****Wednesday, August 20**  | **Thursday, August 21****Friday, August 22** |
| Bellringer: * What is APES?

In Class:* Intro to APES: Summer Assignments
* Class Website

Handout:* Syllabus
* Lab Safety Contract
* Chapter 1 & 2
* APES Calendar Unit 1

HW:* Read all handouts
* Get Lab Safety and Syllabus signed
* Buy supplies
* Read Chapter 1 (pgs 5-20)
* $7.00 lab fee is due
 | Bellringer: * The Mysterious Neuse River Fish Killer

In Class:* Diagnostic Test
* Powerpoint: Sustainability & Ecological Footprints
* Discovery Ed Video Clip
* Computer Lab: Ecological Footprint

Handout:* Unit 1 Study Guide
* Ecological Footprint Activity

HW:* Read Garrett Hardin article (website)
* Complete Ecological Footprint

 (lab composition book) due 8/25 or 8/26* Read Chapter 1 (pgs 20-28)
 | Bellringer: * Ecological Footprint Analysis

In Class:* Powerpoint: Environmental Problems & Sustainable Society
* Film: The Lorax
* Pre-Lab: Happy Fishing (composition book)
* QUIZ: 1-1 and 1-2

Handout: * Lorax Analysis Questions
* Lab Report Rubric
* Happy Fishing

HW: * Finish pre-lab Happy Fishing
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| **Monday, August 25****Tuesday, August 26** | **Wednesday, August 27****Thursday, August 28** | **Friday, August 29****Tuesday, September 2*** **Monday 9/1 NO SCHOOL**
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| Bellringer: * Do the Math: Hectares & Forest Clearing

In Class:* Lab: Happy Fishing
* Powerpoint: APES Mathematics

Handout: * Happy Fishing
* Mathematics Review

HW:* Finish write-up Happy Fishing (due 8/31 or 9/2)
* Read Chapter 2 (pgs 31-34)
 | Bellringer: * Data Analysis: Hubbard Brook Experiment

In Class:* Powerpoint: The Scientific Process
* Discovery Ed Video
* FRQ Practice
* QUIZ: Math Practice

Handout: * Experimental Design Diagram
* FRQ Test Tips
* FRQ: Released Item

HW: * Read Chapter 2 (pgs 35-42)
* Pre-Lab: Atoms & Molecules (website)
 | Bellringer: * A Lake of Salt Water, Dust Storms and Endangered Species

In Class:* Powerpoint: Matter
* Lab: Atoms & Molecules
* QUIZ: Scientific Method

Handout: * Atoms & Molecules

HW: * Finish write-up Atoms & Molecules (due 9/7 or 9/8)
* Read Chapter 2 (pgs 42-51)
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| **Wednesday, September 3****Thursday, September 4** | **Friday, September 5****Monday, September 8** |  |
| Bellringer: * Do the Math: Calculating Energy Use and Converting Units

In Class:* Powerpoint: Law of Conservation of Matter and Laws of Thermodynamics
* Activity: Popcorn Relay
* QUIZ: Vocabulary

Handout: * Popcorn Relay

HW: * Review Unit 1 Study Guide – due 9/7 or 9/8
 | Bellringer: * Reversing the Deforestation of Haiti

In Class:* TEST: Unit 1 – Chapters 1 & 2
* Plan B 2.0 (website)

Handout: * Plan B 2.0
* Unit 2 Study Guide

HW: * Read Chapter 3 (pgs 54 -62)
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