APES Skills (Optional Summer Prep)

Students should come into AP Environmental Science with a mastery of fundamental high school science and math skills.
Click here for a practice worksheet

- Students should know the components associated with the scientific process:
    - Problem, Hypothesis, Independent variable, Dependent variable, Control group, Experimental group, experimental constants, observations, quantitative data, qualitative data, materials, and procedure.
- Students should be able to visually recognize the difference between a data table and a graph.
- Students should be able to determine the average and range of a data set.
- Students should be able to accurately construct both line and bar graphs and know when one type is more appropriate than another.
- Students should be able to complete basic math skills practiced in Biology and Chemistry
    - unit conversion from American standard to SI units
    - Using the metric system.
    - Calculating percent change
    - Calculating a percent of a whole.
    - Using scientific notation.
    - Determining significant digits
    - Memorization of elemental symbols and key ions
    - Ability to read a chemical formula and a chemical equation
- Students should be able to identify/use standard lab equipment
    - Thermometer
    - Graduated cylinder
    - Balance
    - Microscope