


The Science Behind It All


Unit 2 ⇨ Chapter 3

Bookkeeping

 Homework is DUE.

 Don't forget about your project. Due 6.
May.2015

▫ At the end of this unit, we will have a quiz covering Units 1 and 2.

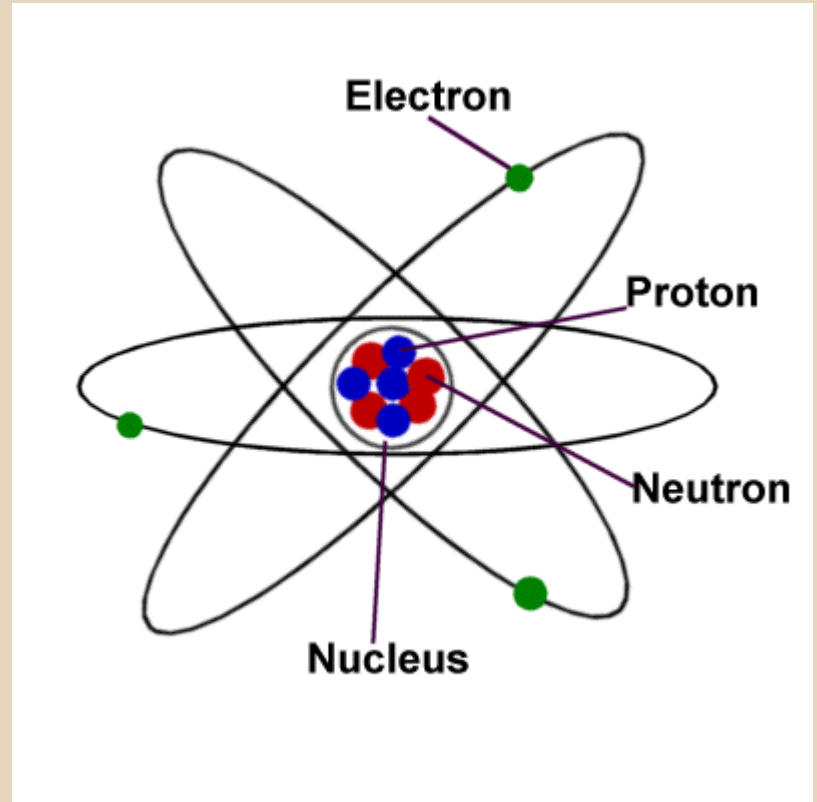
 If you know you are going to be gone, schedule your make up NOW

The [Scientific] Basics of the Earth

Chemistry is used to describe and classify what goes on within the earth.

Elements combine to make matter, which is then utilised in different ways.

- Carbon -- the basis of life.



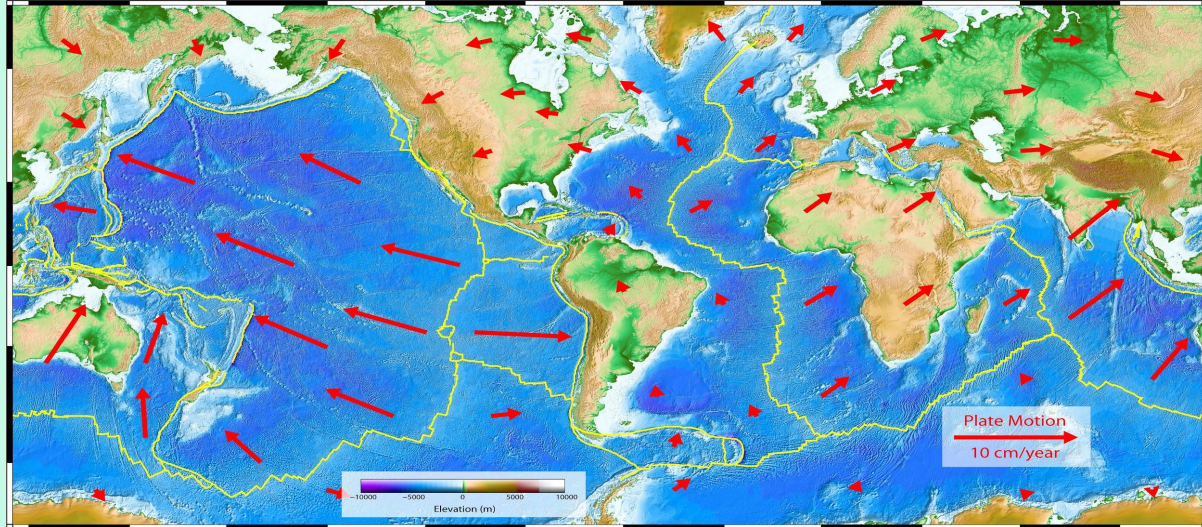
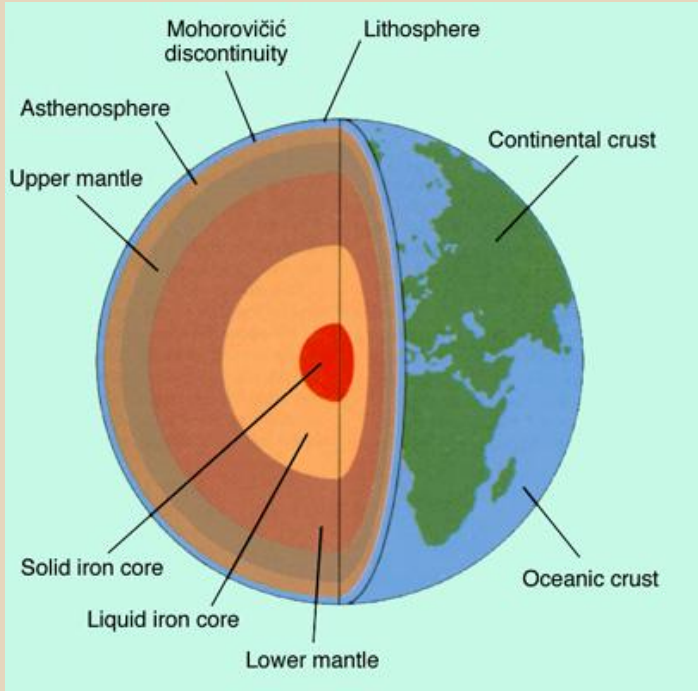
The [Scientific] Basics of the Earth

Energy

- Chemical
- Mechanical
- Heat
- Electrical
- Waves
- Solar
- Kinetic
- Potential
- Nuclear
- Electromagnetic
- Radiation
- Others



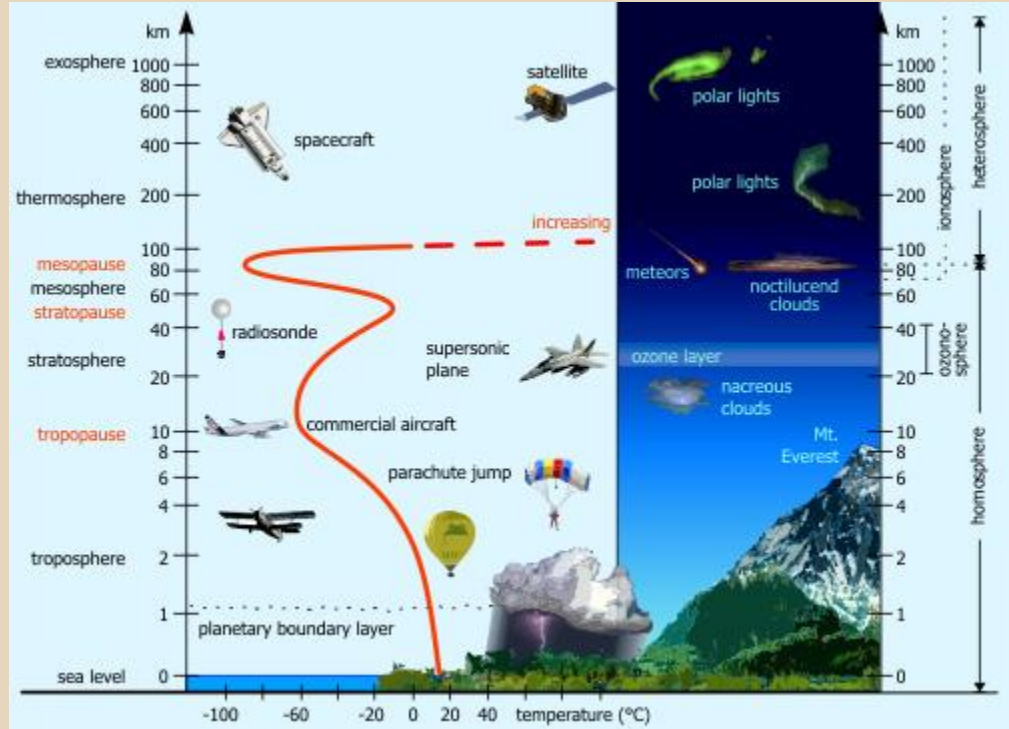
Destination Earth



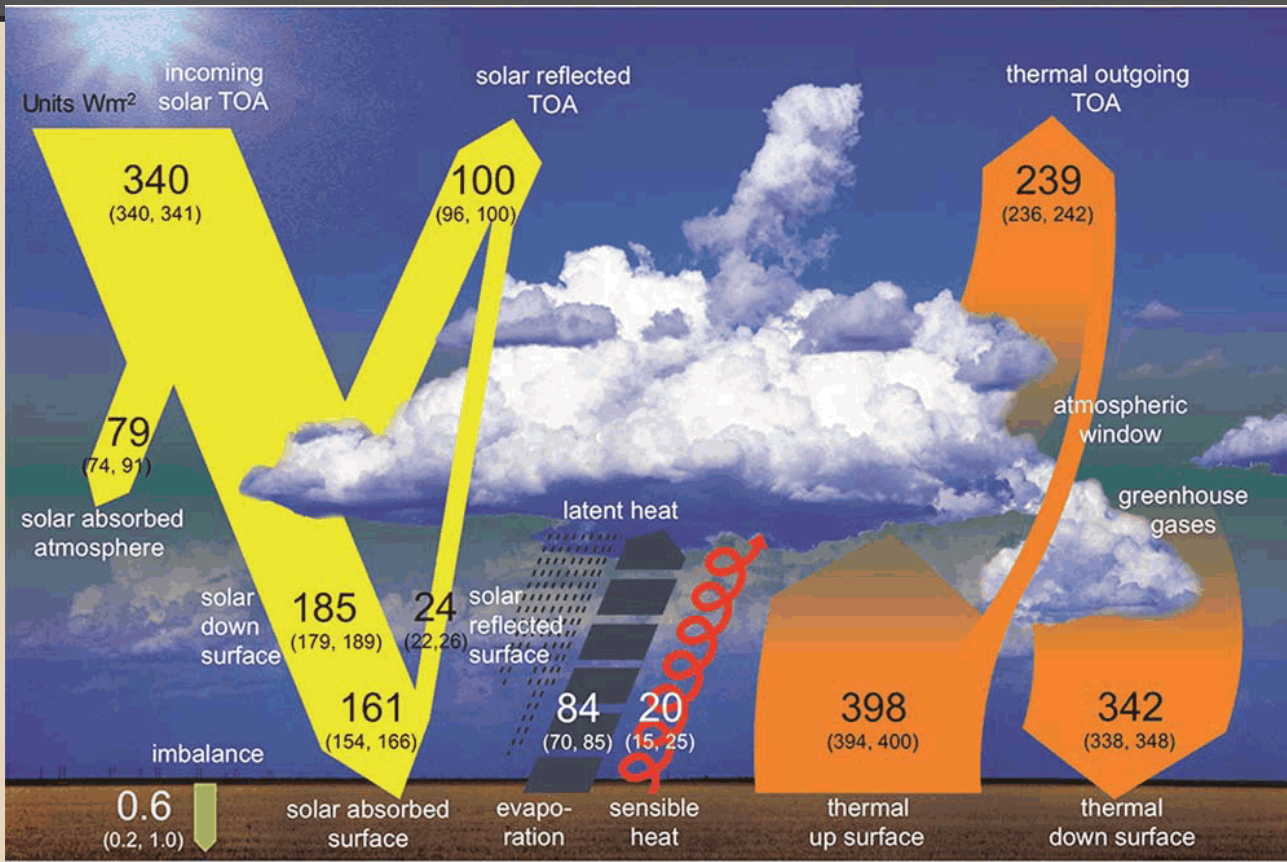
The Sky's the Limit

Important things in the atmosphere

- Water vapour
- Nitrogen
- Hydrogen
- Sulphur
- O₃
- Methane



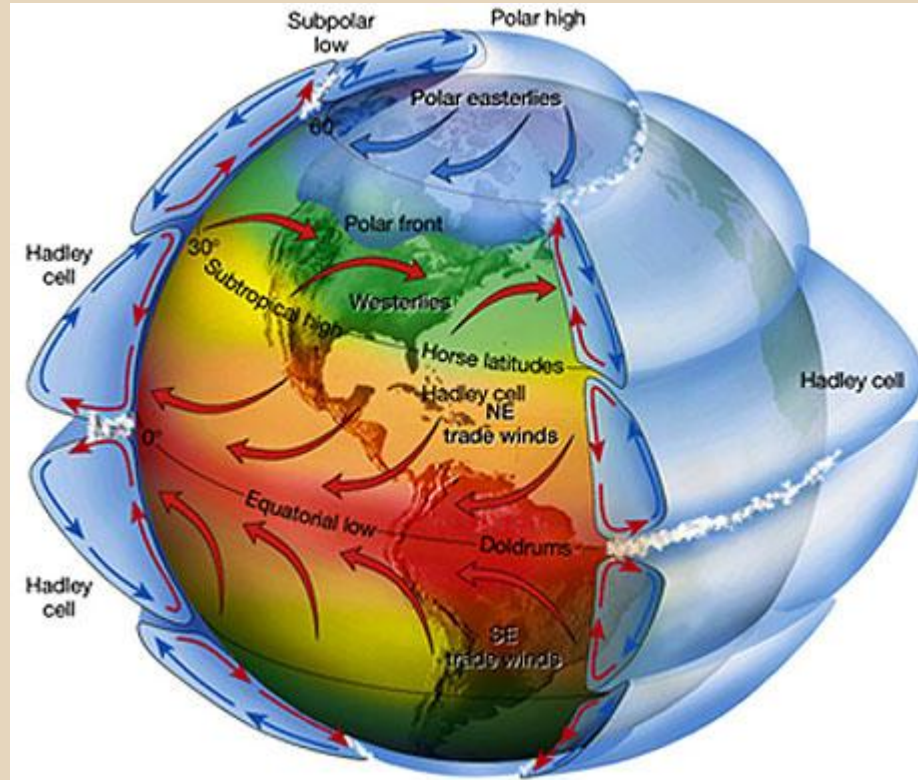
Big Picture Energy Budgets



Please note: The numbers in this diagram can and should be ignored. Scientists and agencies that measure them cannot agree on the numbers, as they change per season, climate fluxes (El Nino, etc.), and political disposition.

However, the arrows do a fabulous job of showing what goes on.

Go With The Flow



Kaplan homework

The homework problems for this unit are:

- 3.7
 - All
- 4.1
 - #2
- 4.3
 - #4
- 4.5
 - #3

Due 7.May.2015 at the beginning of class.

Extra credit:

Describe one way that criminal justice and law enforcement personnel could live more sustainably.

Yes, this overlaps with your paper, which is due soon.

REMINDER. Project due soon.

Project 1 -- Due at the beginning of Unit 3 (6.May.2015).

Begin by brainstorming ideas that you will engage in within your career in criminal justice that might have a negative impact on the environment? Some examples might be leaving lights on all night, driving around excessively, printing out every email you might get, etc.

Once you have a list of potentially damaging behaviours that you'd like to know more about, conduct research to what the local environmental impact of those behaviours are.

Write a 2 - 3 page paper that describes these behaviours and their potential impact on the environment. Include in the paper the roles of ethics, markets, and law into these behaviours. Conclude by arguing whether or not such behaviours should change, why or why not, and, if they should, how.

Projects must include 3 sources. The paper should be single spaced, using a standard 12 point font.