Beginning today all notes from class require:

1. Date
2. Topic
   1. Section #
   2. Title
3. Point form outline of notes and discussion

Video for review sections 1.1 – 1.12 <http://video.nbed.nb.ca> High School Geography section “Inside Out”

Pass out understanding concepts sample answers.

2.1

Cycling of Matter in Ecosystems

<http://www.globalchange.umich.edu/globalchange1/current/lectures/kling/ecosystem/ecosystem.html> a great site to increase your knowledge and supplement the class.

1. Matter: anything that has mass and takes up space
2. Molecules/molecular compounds: a compound formed by the combination of two or more atoms held together with covalent bounds
3. Organic Substances:
   1. Always contain carbon and hydrogen atoms and often contain oxygen and nitrogen atoms.
   2. Proteins, sugars and fats are the important chemicals that make up your body. They are all organic substances.
4. Inorganic Substances:
   1. Matter that does not contain carbon and hydrogen atoms such as
      1. carbon dioxide
      2. water
      3. ammonia
5. Limits on Matter
   1. The materials used in making the bodies of living organisms are limited to the atoms and molecules that make up the earth.
   2. There for to maintain life on earth matter must be recycled.
6. Cycling of matter
   1. Every carbon atom has and will continue to be recycled through the environment.
   2. Possibly some where in your body there are carbon atoms that were once found in a dinosaur.
7. Process of cycling
   1. Digestion takes complex organic molecules and breaks them down into simple molecules.
   2. Decay and decomposition breaks down organic matter (dead and plants, animals and feces) into small inorganic molecules.
      1. Bacteria
      2. Bracket fungi
      3. Mould
8. Homework Understanding Concepts page 51,
   * 1. Explain the difference between organic and inorganic chemicals
     2. Give some examples
     3. Use a diagram to show the different ways that a carbon molecule that was once in a cell in a blade of grass could become part in a cell in you.
     4. In a few paragraphs explain the diagram figure 4

Input Energy 🡪 Ecosystem/Matter Cycles 🡪Energy Lost (Thermal Energy)