**Questions to answer:**

1. Explain the role of nutritional systems in contributing to the maintenance of homeostasis in organisms.
2. Explain the process of fungal nutrition.
3. If autotrophs can make their own food, why do they have any nutritional requirements?
4. How are nutrients absorbed at the roots of plants?
5. How do plants acquire nitrogen?  Why is nitrogen necessary for plants?
6. Explain the purpose of the adaptations found in carnivorous plants and parasitic plants.
7. Where do the four major stages of nutrition (ingestion, digestion, absorption, elimination) occur in a human?
8. Copy and fill in the following chart

|  |  |  |
| --- | --- | --- |
| **Organ** | **Example(s) of Chemical Digestion** | **Example(s) of Physical Digestion** |
| Mouth |  |  |
| Stomach |  |  |
| Small Intestine |  |  |

1. Explain how food is absorbed in to the mammalian body.
2. Diagram the blood glucose level feedback loop.

**Things you should make sure you understand:**

**(feel free to ask questions about them in class)**

* Why organisms require nutrients and the consequences of malnutrition.
* How the structure and function of plant organs contribute to plant nutrition.
* The roles of symbiotic relationships in plant nutrition.
* The structure and function of all parts of the mammalian digestive system.
* How the structure and function of all organs in the mammalian gastrointestinal tract contribute to nutrition of a mammal.
* Where in the gastrointestinal tract specific types of macromolecules begin to be broken down.
* The roles of symbiotic relationships in the nutrition function of the large intestine in mammals.
* How dentition, obesity, and the structure of the gastrointestinal tract in mammals can serve adaptive functions.
* How the mammalian digestive system demonstrates the ideas of compartmentalization and cooperation among organs.
* The causes, effects, and treatements of the disorders demonstrated in the presentation.