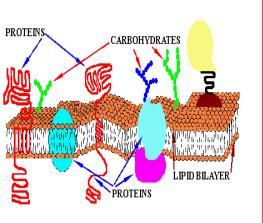
Cells and Macromolecules

C-notes

Why do we "eat"?



Cell Membrane

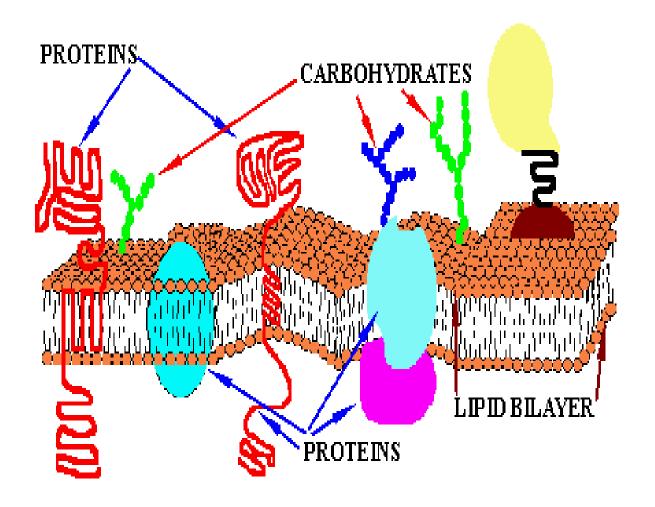
We eat because each of our CELLS need materials IN THE FOOD to operate and do their functions. The cells need "macromolecules" and the energy inside them. The cells themselves are made up of MACROMOLECULES

C-notes

Why do we "eat"?

What are macromolecules?
Macromolecules are LARGE MOLECULES.
Examples:

- Carbohydrates
- Protein
- Fats (Lipids)
- Nucleic Acids



Cell Membrane

C-notes

Why do we "eat"?

- Besides "energy" that we get from food there are four macromolecules plus two nutrients that we get from food:
- 1. Carbohydrates- energy, growth, repair
- 2. Protein-growth, repair
- 3. Fat- energy and building
- 4. Vitamins helps cell processes, building
- 5. Minerals helps cell processes, building

 Macromolecules & diet All macromolecules are needed for your cells to "do" what they "do" That is why when we eat, it is important to get all the macromolecules 	• Box 2	• Box 3
• Box 4	• Box 5	• Box 6

Carbs- any food from plants: bread, cereal, starches (potato, corn, rice), fruit.

Protein & Nucleic Acids- mostly foods that are from animals: meat, eggs, milk. Also beans and "nuts": soy, lentil, kidney beans, peanut butter, almonds, hazelnuts, walnuts.

Fats- usually from oils (olive, peanut, vegetable) but also found in meat products and some plant products (avocado, nuts) EXAMPLES: butter, fried foods, salad dressings

Vitamins- most foods but more in vegetables and fruit; usually added to some foods like milk, cereal and bread

Minerals- many foods but more in vegetables and fruit; usually added to some foods like milk, cereal and bread

8th grade Anchor Questions Week 36 (May 26-29)

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- Explain how you would know if something is a living thing or not.
- 2. What are the needs of all living things? Include examples for each one.
- 3. Explain the key concepts of the Cell Theory.
- 4.Explain in detail what we get from food when we eat.
- 5. What are cells made of? What macromolecules make up cells?
- 6.What are the levels of organization for multicellular organisms? Give examples for each level.

Vocabulary:			
Macromolecule	Protein	Carbohydrate	Organism
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