

Friday, November 2nd, 2012

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| Unit: The Chemistry of Life Topic: Identifying Food Nutrients | Date: 11/2/2012 Class: Biology |
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Michigan Objectives:

B2.2C Describe the composition of the four major categories of organic molecules (carbohydrates, lipids, proteins, and nucleic acids).

Illinois Objectives: N/A

My Lesson Objectives:

- Recognize that we macromolecules are integral, “building blocks” to our bodies, and we must ingest many of them to sustain life.

| Activities: (Include minutes) | Materials/Equipment: |
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| <ul style="list-style-type: none">• Quiz (10 minutes)• Students each test 3 substances with one indicator and then share their results with the rest of their group members (38 minutes). Combined, all 4 group members should have used all 4 indicators and tested for starch, glucose, protein, and lipids.• Clean-up (2 minutes) | <ul style="list-style-type: none">• Copies of the Identifying Food Nutrients Lab• Safety goggles• Albumin (protein) solution• Benedict’s solution• Biuret solution• Dropping pipets• Glucose solution• Hot water bath• Lugol’s iodine solution• Stirring rod• Starch solution• Sudan III• Test tubes (12/lab station)• Test-tube holder• Test-tube rack• Unknown solution• Vegetable oil• Water• Wax pencil |

Assessment: (Embedded, Formal)

Embedded: Student data sheets, observations, and inferences in their lab packet.

Formal: Weekly Quiz (10 minutes; 7 questions)