**PowerPoint Notes – Standard 2, Objective 1**

Slide 27: CHONs – protein

Slide 28: Chos – carbohydrates

Slide 29: CHONPs – nucleic acids

Slide 30: CHOPs – lipids

Slide 31: 1) Carbohydrates

2) Proteins

3) Lipids

4) Proteins

Slide 32: 5) Protein

6) Lipids

7) Nucleic Acids

8) Proteins

Slide 33: 9) Carbohydrate

10) Nucleic Acid

11) Carbohydrate

12) Nucleic Acid

Slide 34: 13) Carbohydrates

14) Lipids

15) Lipids

16) Nucleic Acids

Slide 35: [*learn.genetics.utah.edu/content/begin/cells/scale*](http://learn.genetics.utah.edu/content/begin/cells/scale/)

Slide 36: Macromolecule Modeling Activity

Slide 37: Macromolecule Chart Handout

Slide 38: Water Properties Lab

Slide 39: Why do our cells need to be able to dissolve other molecules? (To make small atoms of specific substances useful in various organism functions.) Why should water be cohesive within the cell? (Ease of movement through biological membranes.)

Slide 44: These water properties are not independent of each other. Polarity causes surface tension, a product of cohesion and adhesion, which causes capillary action . . .

Slide 46: Sweating – capillary action, heat capacity, homeostasis. Wilting – loss of water, turgidity decreases (cohesion, capillary action, adhesion)

Slide 47: Liver and Enzymes Lab

Slide 48: Point out the parts of enzymatic reactions: Substrate, Active Site – Enzyme Lesson – “Matchmaker”

Slide 49: What do enzymes do? How do they do it?