

Name: _____ Section: _____
Creating Graphic Organizers/Webs

Directions: Using the outline below, create a graphic organizer/web on a separate sheet of paper. It is important to recognize that you need not understand the following information to accomplish this task.

- A. **Carbohydrates** (sugars) - composed of C, H, O; contain stored energy; many are polymers; each C has an O attached to it; most names end in "ose"
- a. Three Main Types
 - i. **Monosaccharides** (simple sugars)
 - 1. Glucose - sugar essential for life processes; found in blood
 - 2. Fructose (levulose) - sweetest sugar; found in candy, fruit, etc.
 - 3. Galactose - found in brain and nerve tissue
 - ii. **Disaccharides** (2 monosaccharides)
 - 1. Maltose (glucose + glucose) - found in malt beverages
 - 2. Lactose (glucose + galactose) - found in dairy products
 - 3. Sucrose (glucose + fructose) - table sugar
 - iii. **Polysaccharides** (many sugars)
 - 1. Storage
 - a. Starch - greatest source of carbohydrates in living things
 - i. Amylose - straight chain
 - ii. Amylopectin - branched
 - iii. Glycogen (animal starch) - highly branched; help make up liver and muscles; diminished during the day unless replenished with food
 - 2. Structural
 - a. Cellulose - found in plant cell walls; not digested in humans
 - b. Chitin - chief organic substance in exoskeletons of insects and crustaceans