**Secret Phrase Activity: Carbohydrates**

**Directions:** Figure out the hints and write the answers on the correct spaces. At the end write the highlighted letters in order to answer the secret question. Don’t guess the question first!!!

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**Hints**

1. The most abundant organic compound on Earth.
2. Chains of glucose monomers in the alpha configuration results in the polysaccharide \_\_\_\_\_\_.
3. Chitin is found in the \_\_\_\_\_\_\_\_\_\_\_ of arthropods.
4. This polymer of glucose is less branched than glycogen but more branched than amylose.
5. ­­­­­­­­­­­­­­­This animal digests cellulose with bacteria found in the rumen.
6. A family of organelles, found in plants, that store starch as granules.
7. The covalent bond between two monosaccharides is a \_\_\_\_\_\_ \_\_\_
8. Leathery chitin becomes hard when encrusted with \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_, a salt.
9. Dihydroxyacetone, a *3 carbon sugar*, is an example of a \_\_\_\_\_\_ sugar.
10. The structural polysaccharide in animals.
11. Glucose bonded to what monosaccharide forms lactose?
12. About 80 cellulose molecules form \_\_\_\_\_\_, which construct the cell wall.
13. What organ stores glycogen?
14. The storage polysaccharide in animals + the letter “s”.

**Question:** What is the process in which bottom feeders use inorganic compounds to manufacture glucose?

**Answer:** \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_ \_\_\_