**Reading Guide Chapter 2 Carbohydrates**

**Principles of Life Pages 26-28**

1. What is the relationship between the terms “monomer” and “polymer”?
2. Briefly explain the two types of reactions that involve water.
3. List the function of carbohydrates
4. What are monosaccharides? Provide examples.
5. What type of bond is found in carbohydrates?
6. What are disaccharides? Provide examples.
7. How do oligosaccharides differ from the other types of carbohydrates?
8. What are polysaccharides? Provide examples.
9. What shapes can polysaccharides assume?
10. What differs between cellulose and starch?

**Reading Guide Chapter 2 Lipids**

**Principles of Life Pages 29-31**

1. What are van der Waals interactions? What property of a lipid allows them to form?
2. List the function or role lipids play in a living system.
3. What is a triglyceride?
4. Describe the differences between saturated and unsaturated fats.
5. Define amphipathic.
6. Illustrate how phospholipids are arranged in a membrane. Label your diagram to demonstrate the molecules’ affinity for water.