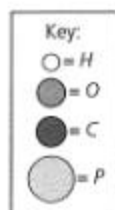
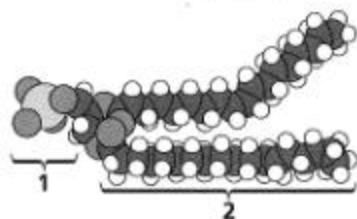


## IT'S YOUR TURN

Please read each question carefully. For a multiple-choice question, circle the letter of the correct response. For a constructed-response question, write your answers on the lines.

- 1 A single atom of carbon is joined to a hydrogen atom. What is the maximum number of double bonds the carbon atom may yet form?  
A 1  
B 2  
C 3  
D 4
- 2 Which of the following types of compounds is unlike the other three?  
A wax  
B saturated fat  
C phospholipid  
D polysaccharide
- 3 Which of the following is **not** created as a result of dehydration synthesis?  
A cellulose  
B disaccharide  
C glucose  
D water

Use the diagram below to answer question 4.



- 4 The diagram shows a molecule with regions numbered 1 and 2. Which statement correctly describes the molecule?  
A Region 1 is composed of fatty acids and is polar.  
B Region 1 is composed of phosphate and is nonpolar.  
C Region 2 is composed of phosphate and is polar.  
D Region 2 is composed of fatty acids and is nonpolar.

5 Lipids, such as fats and oils, play important roles in living organisms. Carbohydrates also carry out essential functions in living things.

A Describe the general structure of a fat or oil molecule.

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B Describe how the structures of fats and oils differ from the structure of carbohydrates.

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C Describe how a function of fats and oils is similar to a function of carbohydrates.

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