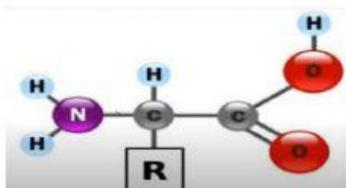
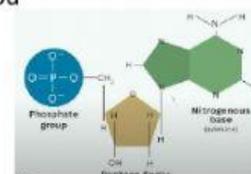




## AP Biology: 1.4 Properties of Biological Molecules

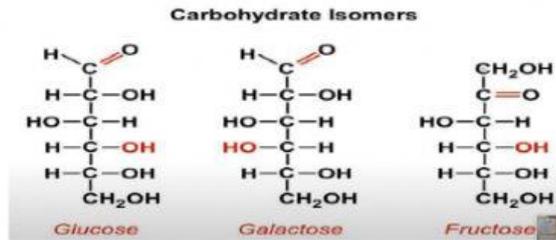
1. The structure of something determines its \_\_\_\_\_. If you change the structure you change the \_\_\_\_\_.
2. What are the three parts of a nucleic acid? \_\_\_\_\_
3. What is the function of nucleic acids? \_\_\_\_\_
4. Each type of nucleic acid differs in their \_\_\_\_\_ and also differs in their \_\_\_\_\_.
5. Name at least three of the functions of proteins. \_\_\_\_\_
6. What are the parts of the amino acid below? \_\_\_\_\_



7. How do you bind two amino acids together? \_\_\_\_\_ What is this bond called? \_\_\_\_\_ There are \_\_\_\_ naturally occurring amino acids in our body.
8. What makes an amino acid nonpolar? \_\_\_\_\_
9. What makes an amino acid polar? \_\_\_\_\_

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10. What do the carbohydrates below have in common? \_\_\_\_\_ What is different about them? \_\_\_\_\_ This difference is also going to determine their \_\_\_\_\_.



11. Lipids are all \_\_\_\_\_. They are composed of \_\_\_\_\_ combined with \_\_\_\_\_

12. What determines if a fatty acid chain is going to be saturated or unsaturated? \_\_\_\_\_

\_\_\_\_\_

What does this cause? \_\_\_\_\_

13. What does the hydrophilic and hydrophobic regions of the phospholipid create? Explain why. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

