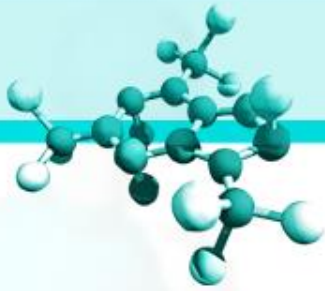


Ch. 2 "The Chemical Level of Organization"

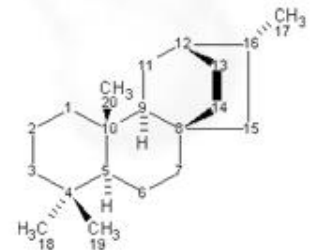
Class 2.7

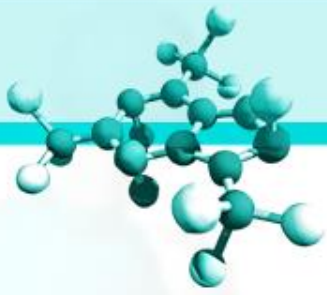


Warm-up

1. How does an enzyme influence a biological reaction?
 - a. It increases the net energy difference between reactants and products.
 - b. It decreases the activation energy necessary to initiate the chemical change.
 - c. It increases the kinetic energy of reactants, thereby increasing their tendency to collide.
 - d. It decreases the kinetic energy of reactants, enabling them to undergo chemical change more easily.

B

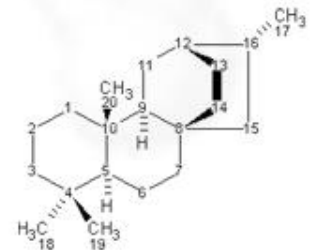


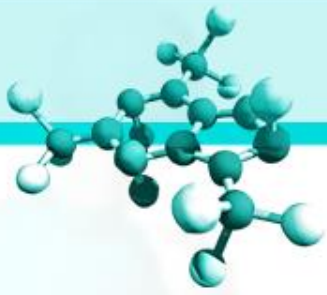


Warm-up

2. A student set up four test tubes containing starch solution in which to perform starch digestion. Supplies included amylase (enzyme that digests starch) and an incubator. In which tube listed would starch digestion proceed most quickly?
- Tube 1: No amylase, room temperature (25°C)
 - Tube 2: No amylase, body temperature (37°C)
 - Tube 3: Amylase present, room temperature (25°C)
 - Tube 4: Amylase present, body temperature (37°C)

D

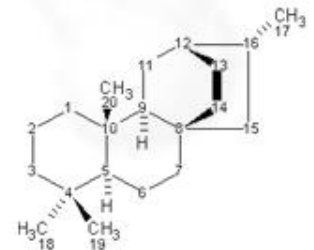


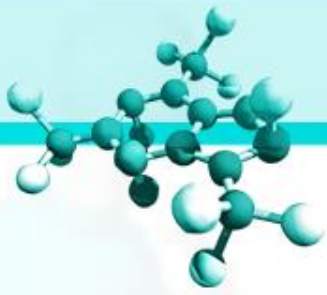


Warm-up

3. Glycogen, used to store energy in the liver and muscle tissue, is an example of which type of molecule?
- a. Carbohydrate
 - b. Protein
 - c. Saturated fatty acid
 - d. Steroid

A

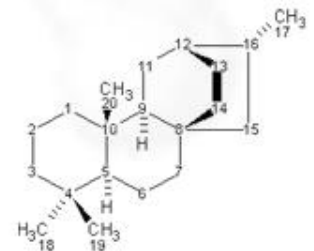


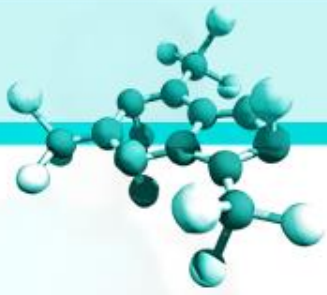


Warm-up

4. Amino acids are the building blocks of which macromolecule?
- a. Carbohydrate
 - b. DNA
 - c. Lipid
 - d. Protein

D

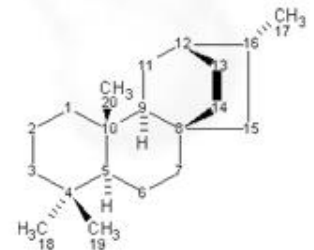


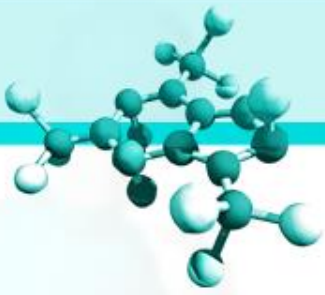


Warm-up

5. An organism's genetic information is stored in which type of macromolecule?
- a. DNA
 - b. Carbohydrate
 - c. Lipid
 - d. Protein

A

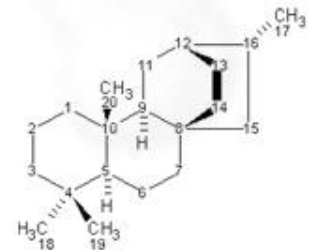


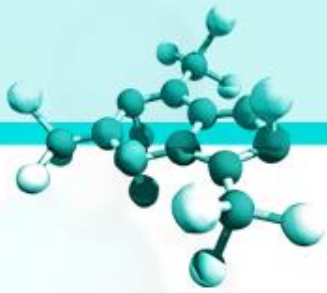


Warm-up

6. Which of the following metabolic pathways is anabolic?
- a. Photosynthesis
 - b. Respiration
 - c. Breakdown of actin in muscles
 - d. Alcohol fermentation

A





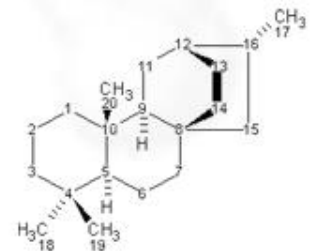
Warm-up

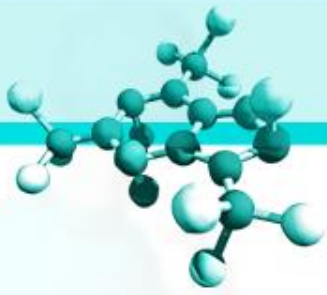
7. Molecules that have an unequal distribution of charges are called _____ molecules.

POLAR

8. The electrostatic attraction between adjacent water molecules is called a(n) _____ bond.

HYDROGEN





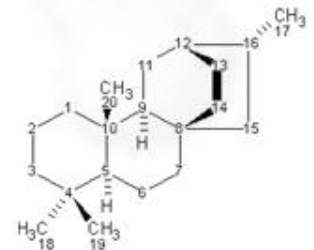
Warm-up

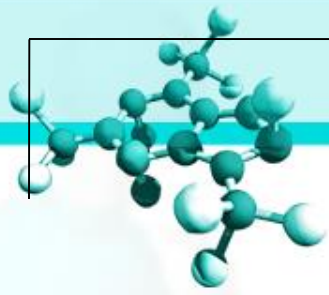
9. ATP is made of one adenine base, one ribose sugar and _____ phosphate groups.

THREE

10. NADPH and ATP are energy _____ molecules.

STORAGE, CARRYING

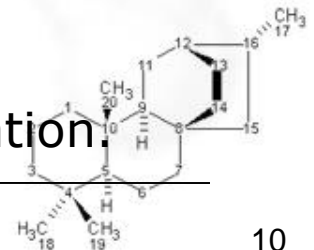


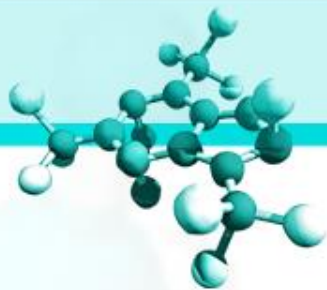


Anatomy Overview:

- Common Biomolecules

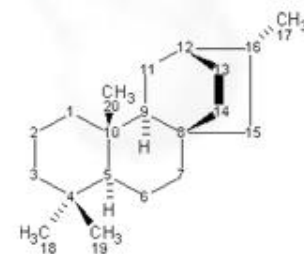
You must be connected to the internet to run this animation

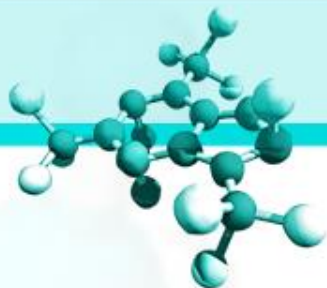




Game Time

Let's play VDZ-party for some Extra Credit on your Test.



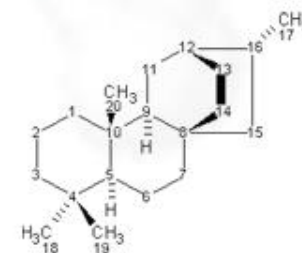


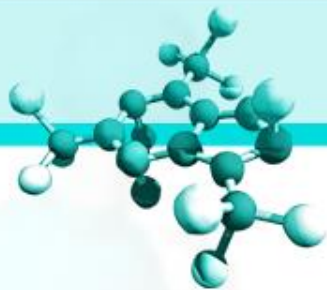
Class Work

With a partner

Complete WSs CT 25, CT 26, & CT 27

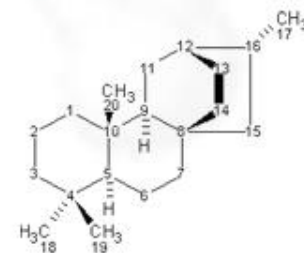
Review.

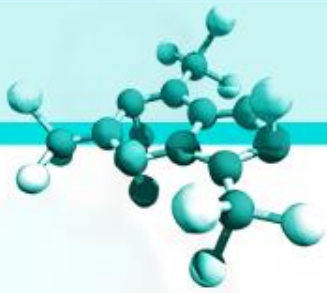




Game Time

Let's play Qwizdom TA for some more Extra Credit on your Test





Bug Bites

Let's read about
Entomophagy

Should We Eat Bugs?

Cochineal Bugs

Acceptable amounts of bug parts

<http://civr.ucr.edu/entomophagy.html>

http://www.insectsarefood.com/what_is_entomophagy.html

<http://www.entomophagy.com/>

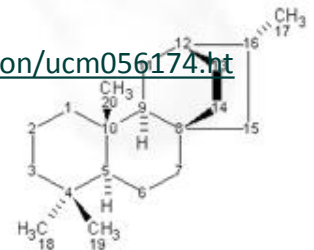
<http://www.fda.gov/food/guidanceregulation/guidancedocumentsregulatoryinformation/sanitationtransportation/ucm056174.htm>

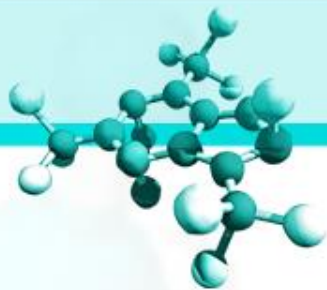
m

People eating insects

<http://www.youtube.com/watch?v=EYqnEmsO7g>

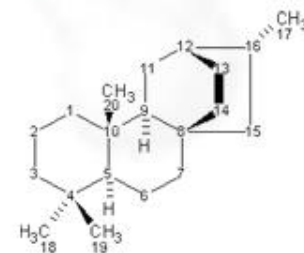
Edible Insects

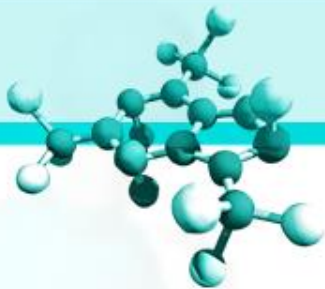




Energy Challenge Activity

[http://www.abpischools.org.uk/page/modules/energychallenge/activity.cfm?
coSiteNavigation_allTopic=1](http://www.abpischools.org.uk/page/modules/energychallenge/activity.cfm?coSiteNavigation_allTopic=1)





Web Quest

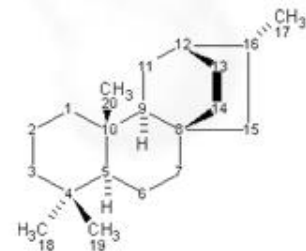
Let's Head to the Computer Lab to finish up with our Web Quest on Nutrition.

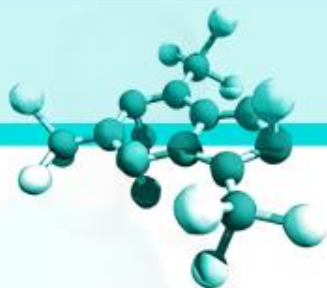
<http://education.nmsu.edu/webquest/wq/food/NutritionWebquest.html#Introduction>

<http://www2.gsu.edu/~wwwche/webquest6h.htm>

<http://www.can-do.com/uci/lessons98/Nutrition.html>

<http://www.altn.org/webquests/nutrition/index.html>





HW

Finish your Web Quests.
Do not forget to bring your LNB.
(2 Current Events)

