

Cell Chemistry Jeopardy

Carbohy- drates	Lipids	Proteins	Nucleic Acids	Random
<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>
<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>
<u>600</u>	<u>600</u>	<u>600</u>	<u>600</u>	<u>600</u>
<u>800</u>	<u>800</u>	<u>800</u>		<u>800</u>
<u>1000</u>	<u>1000</u>	<u>1000</u>		<u>1000</u>
<u>1200</u>	<u>1200</u>	<u>1200</u>		<u>1200</u>

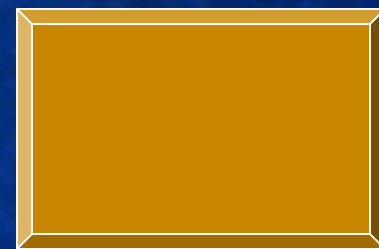
200

Which 3 elements are
carbohydrates made
of?



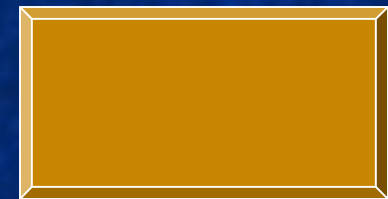
200

Carbon, Hydrogen, Oxygen



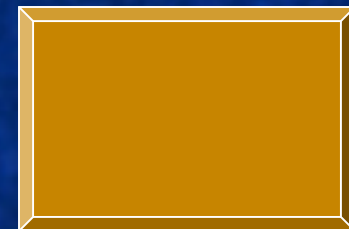
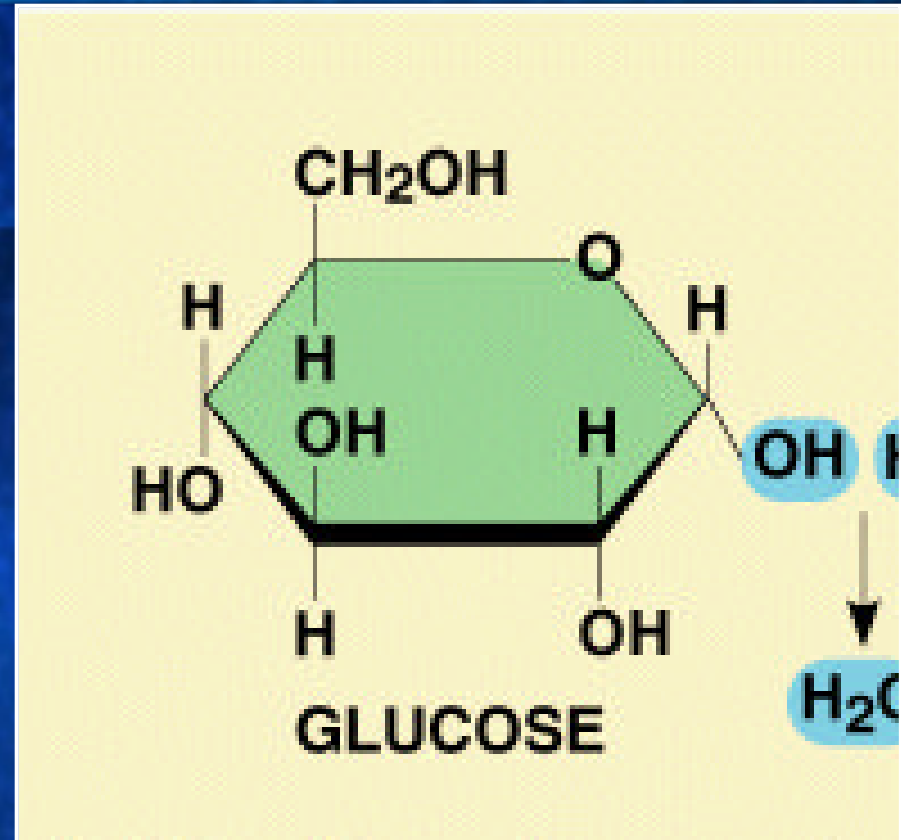
400

The ratio of carbon to oxygen in a carbohydrate is.....



400

1:1



600

The building blocks of
carbohydrates are
called



600

Monosaccharides



800

Name the 3 major
types of
polysaccharides.



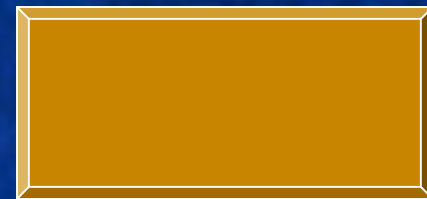
800

Starch, Glycogen, Cellulose



1000

Which polysaccharide
do animals use to
store energy?



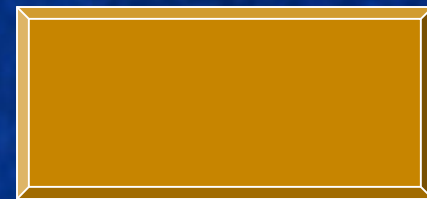
1000

Glycogen



1200

This polysaccharide is
the most abundant
biomolecule on
Earth.



1200

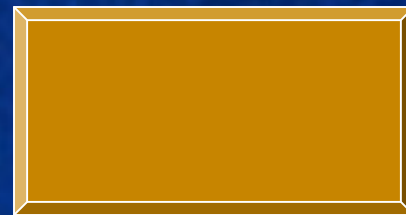
Cellulose



200

Which of the following is not a lipid?

- a) Saturated fat
- b) Starch
- c) Cholesterol
- d) Earwax



200

- a) Saturated fat
- b) **Starch**
- c) Cholesterol
- d) Earwax



400

True or False:
Lipids are water
soluble.



400

False



600

What is the function of phospholipids?



600

Cell membrane



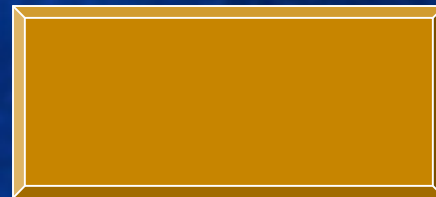
800

Name 2 monomers
(building blocks) that
lipids are made from.



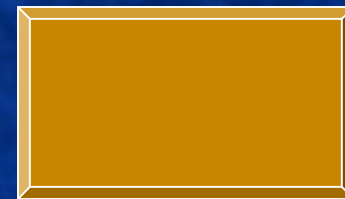
800

Fatty Acids and Glycerol



1000

Name two functions of lipids.



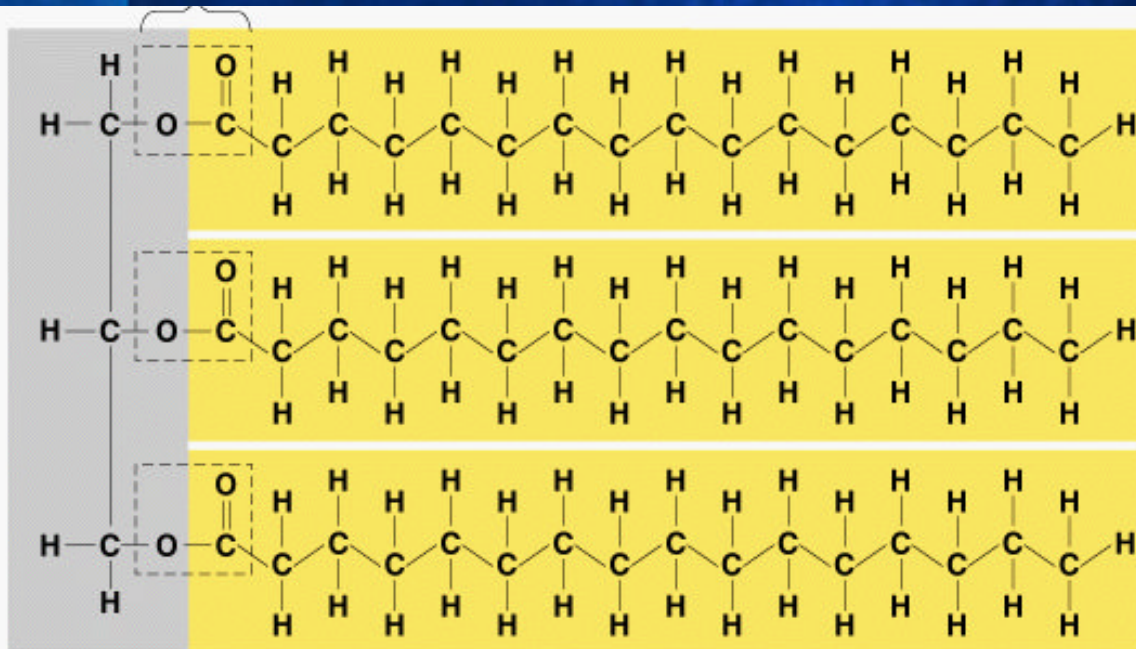
1000

- Storage of energy (Fat)
- Hormones (Estrogen)
- Cell membrane

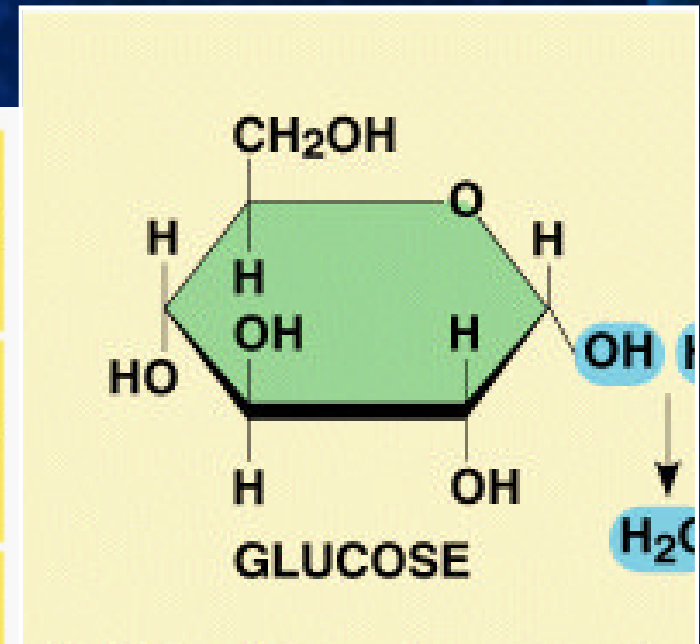


1200

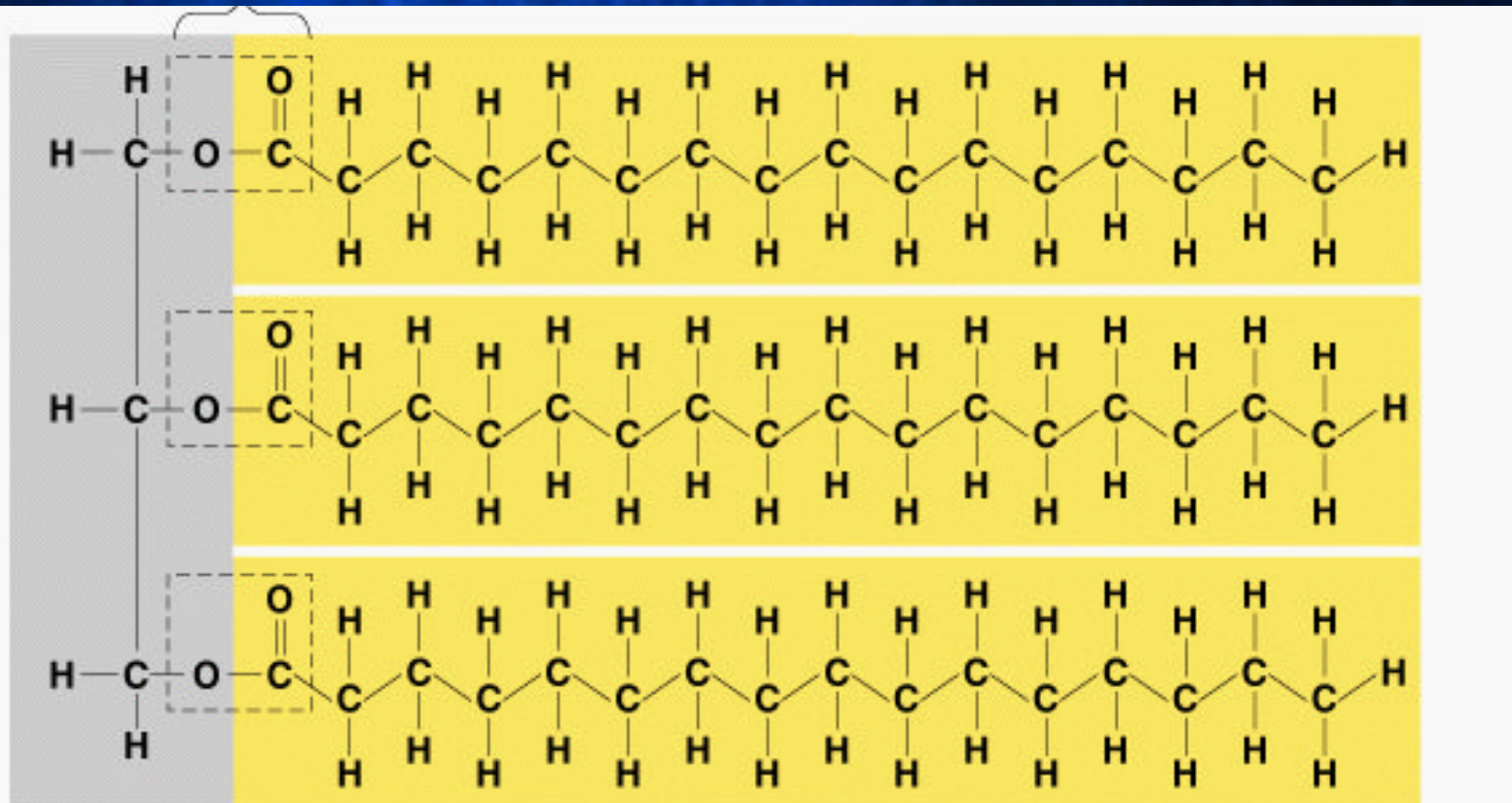
Which of these structures is a lipid?



(b) Fat molecule



1200



(b) Fat molecule



200

What are the monomers
that make up proteins?



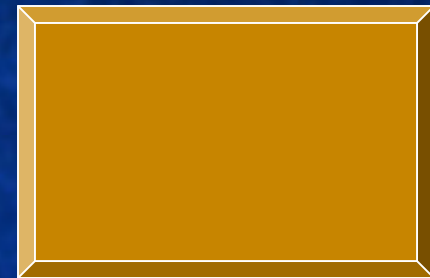
200

Amino Acids



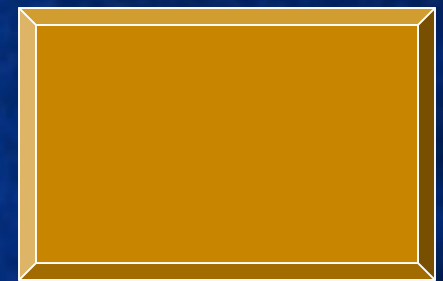
400

How many amino acids
are used to make
proteins?



400

20



600

Name 2 factors that can affect the activity of enzymes.



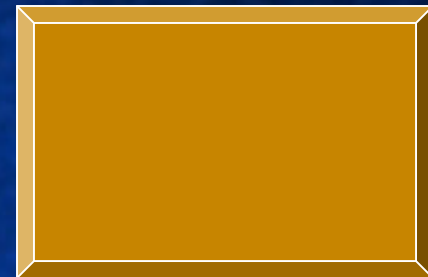
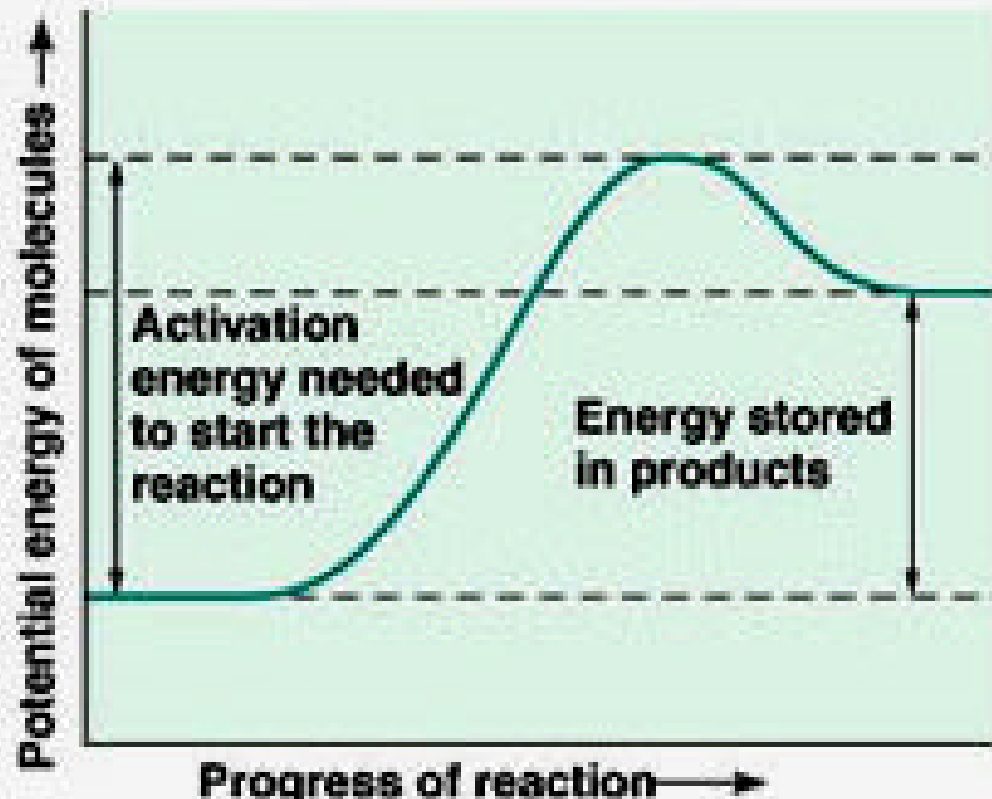
600

- Temperature
- pH
- Ionic Conditions (salt)



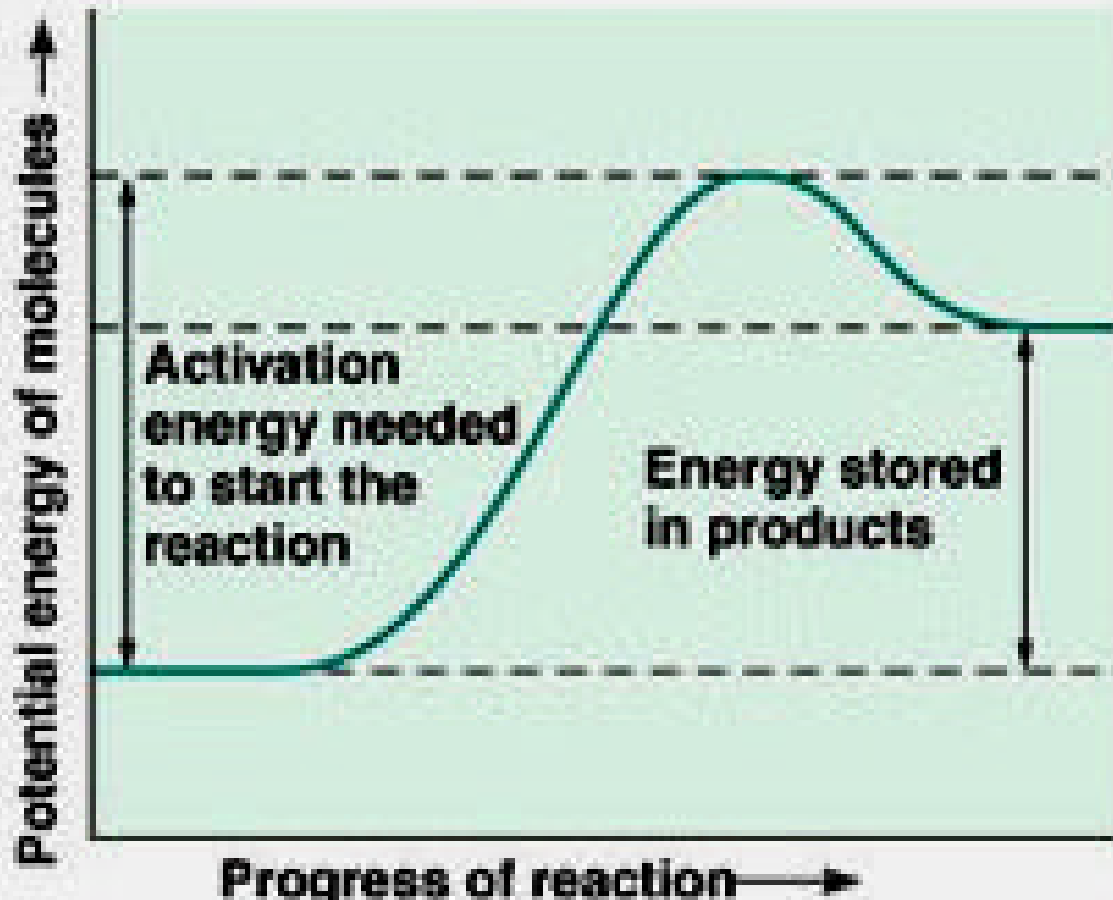
800

Is the following reaction
endothermic or exothermic?



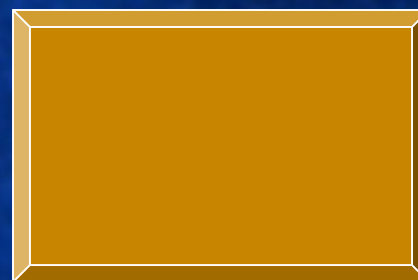
800

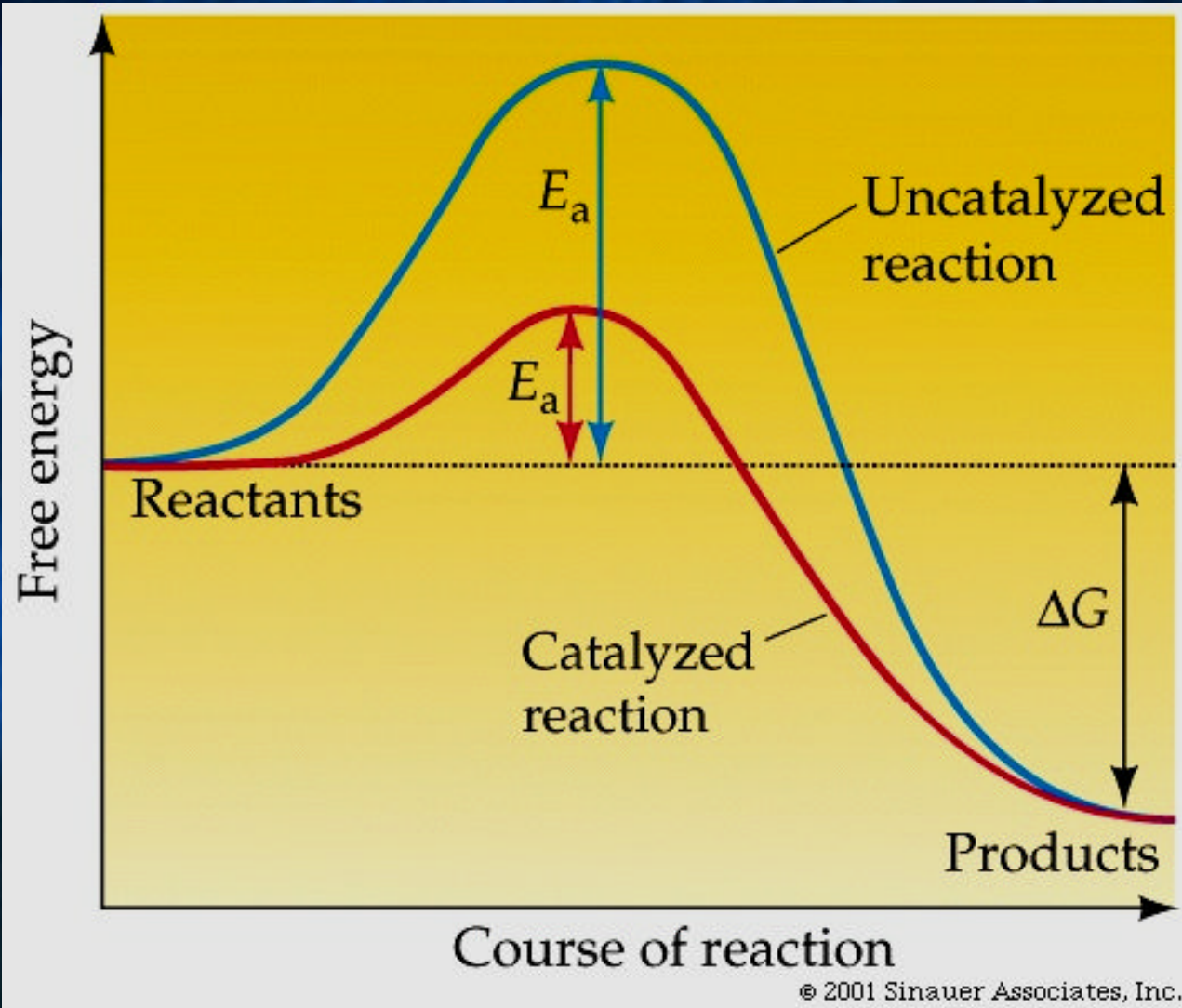
Endothermic



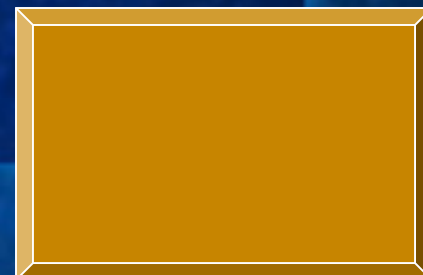
1000

How do catalysts speed
up reactions?





by reducing the
activation energy.



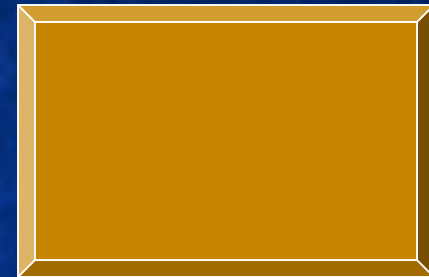
1200

Name 3 functions of proteins.



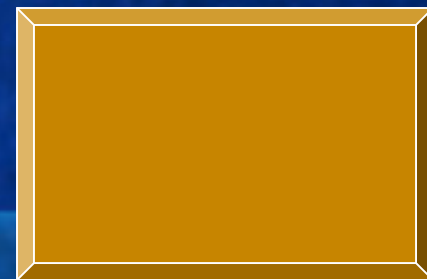
1200

- **Structure (collagen)**
- **Transporting material (Microtubules)**
- **Signals to other cells (Insulin)**
- **Movement (Muscles)**
- **Defense against invaders (Antibodies)**
- **Catalysts (Enzymes)**



200

- Name a polymer that is made from nucleic acids.



200

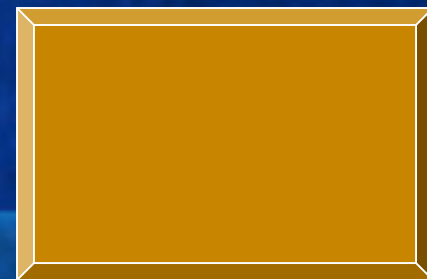
**DNA = Deoxyribonucleic
Acid**

RNA = Ribonucleic Acid

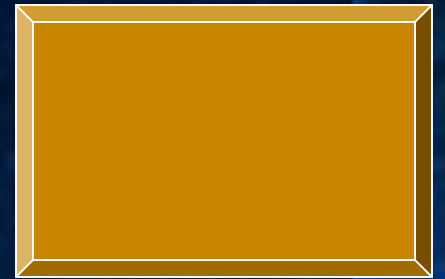
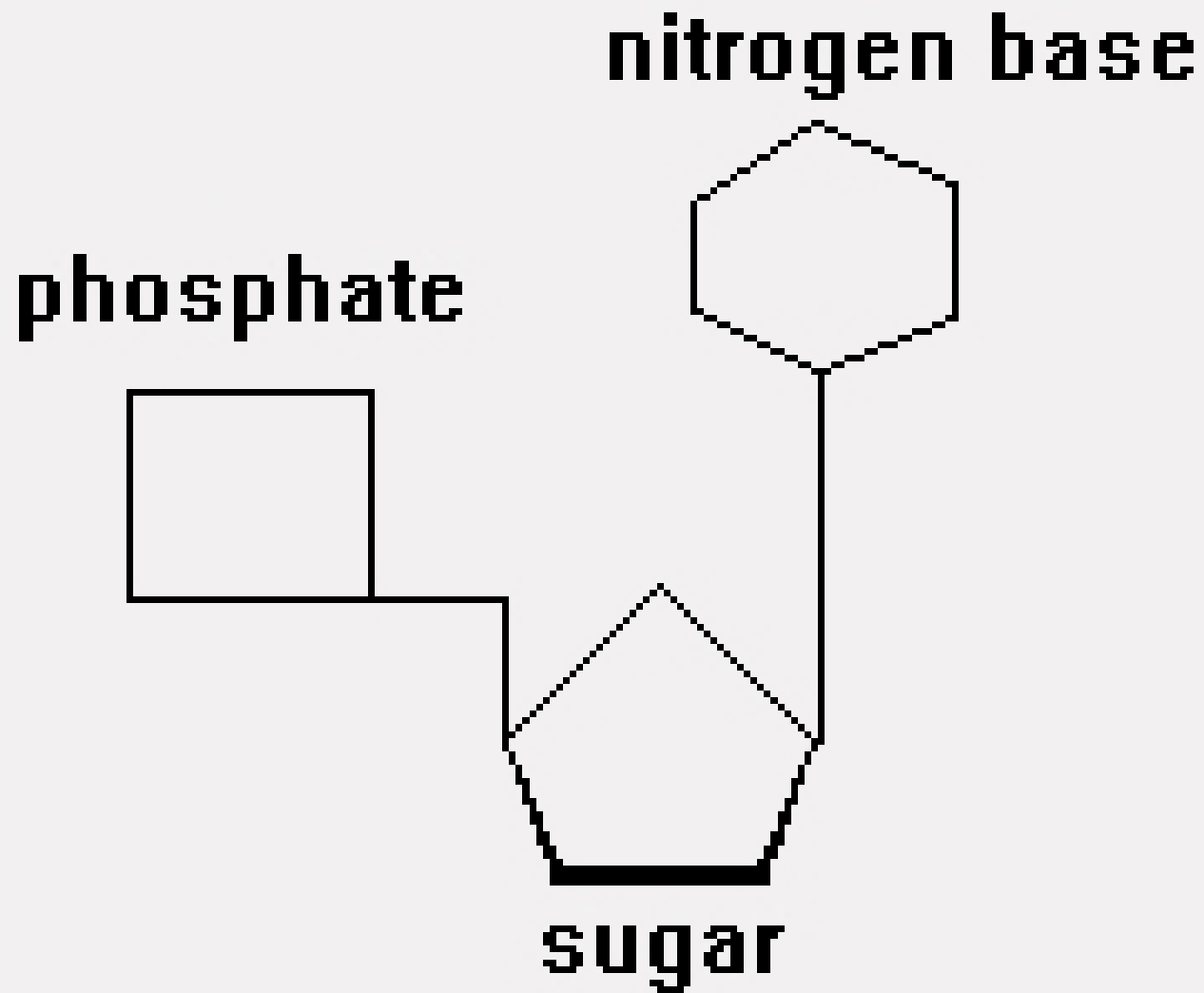


400

**Name the three “parts” of
a nucleotide.**

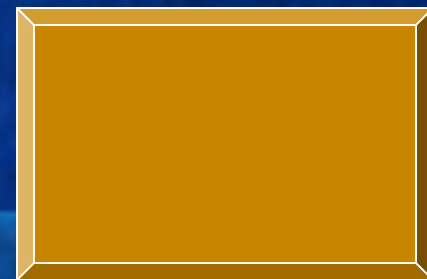


400



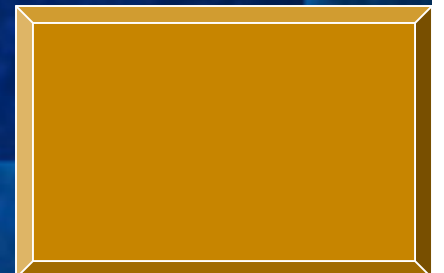
600

**What is the function of
DNA?**



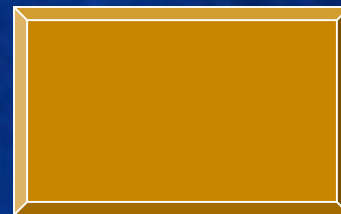
600

To store and pass on genetic information.



200

A solution with a pH of 11
is acidic or basic?



200

Basic



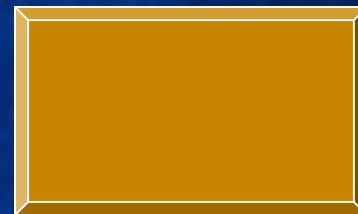
400

Which 3 elements are often found in organic compounds (molecules)?



400

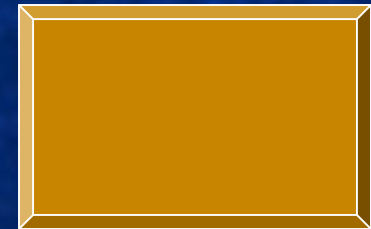
Carbon, Hydrogen, and Oxygen



600

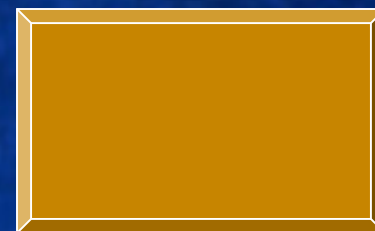
True or False:

Cells contain thousands of different kinds of enzymes, each promoting a different chemical reaction.



600

True



800

True or False:
Water is an organic
molecule?



800

False



1000

Name a food that is high in starch.



1000

- Potatoes
- Corn
- Rice



1200

Name a food that is high in protein.



1200

- Meats
- Eggs

