

Name: _____

Period: _____ Date: _____

Carbohydrate Cut-Out

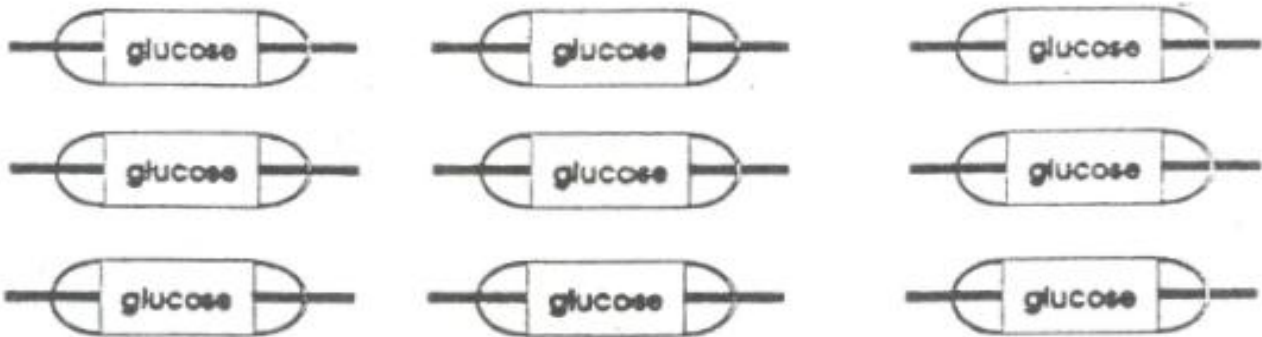
Color all glucose molecules blue (9 individual pieces). Cut each one out individually. Glue these pieces together in 1 long string on the back of this sheet.

- 1) What is another name for the glucose molecule? _____. Cut this word out. Glue this word underneath the long string.
- 2) A long string of glucose molecules make a _____. Color the starch circle Green, but color each individual glucose _____ (like before). Cut out the circle. Cut out the = sign. Glue = sign after the long chain of glucose molecules. Glue the starch circle beside the = sign
- 3) What is another name for a starch molecule? _____. Cut this word out. Glue it underneath the starch circle

So: A lot of glucose molecules (known as monomers) = Starch (known as polymer)

Fill out the function box. Cut it out and glue it on back.

Carbohydrates:



monomers
polymer =



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Carbohydrate function:

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Lipid Cut-Outs

Color all Fatty Acid squares blue (3 total). Color the glycerol Backbone Red (1 total). Cut all pieces out. Glue the Square first. Then beside the glycerol backbone, glue the fatty acid chains in their correct place.

- 1) What is another name for the fatty acid and the glycerol backbone molecules? They are each called a _____. Cut these words out (2 total). Glue these words underneath each part. There will be a + sign in between the two words. Cut out the = sign and glue that next.
- 2) The 2 monomers from above will create a _____. Color the fatty acid squiggles in the lipid circle blue and the glycerol backbone red.
- 3) What is another name for this molecule? _____. Cut this word out. Glue it underneath the triglyceride circle.

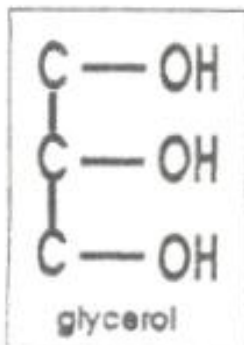
So: Fatty acid chains and a glycerol backbone (known as monomers) = Triglyceride (known as polymer)

Fill out the function box. Cut it out and glue it on back.

Lipids (fats and oils):



monomer monomer
polymer + =



Lipid functions:

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Nucleic Acid Cut-Outs

Color all the monomer pieces blue (3 total). Cut all those pieces out. Glue them close to each other.

- 1) What is another name for these 3 molecules? They are each called _____s . Cut these words out (3 total). Glue these words underneath each part. There will be a + sign in between the each word. Cut out the = sign and glue that next.
- 2) The 3 monomers from above will create a _____. Color that circle red.
- 3) What is another name for this molecule (red)? _____. Cut this word out. Glue it underneath that circle.

So: A Nitrogen base, a sugar and a phosphate group (known as monomers) = Nucleic Acid(known as polymer)

Fill out the function box. Cut it out and glue it on back.

Nucleic Acids:

nitrogen base

P
phosphate group

nucleic acid

sugar

+ +
=

Polymer
Monomer
Monomer
Monomer

Nucleic acid function:

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Protein Cut-Outs

Color all the monomer pieces blue (6 total). Cut each one out individually. Glue these pieces together in 1 long string on the back of this sheet

- 1) The 6 monomers from above will create a _____. Color that circle red. Cut out the = sign. Glue it next to the chain. Then glue the red circle next to the = sign.
- 2) What is another name for this molecule (that is in red)? _____. Cut this word out. Glue it underneath that circle.

So: Amino Acids (known as monomers) = Protein (known as polymer)

Fill out the function box. Cut it out and glue it on back.

Proteins:

amino acid

amino acid

amino acid

amino acid

amino acid

amino acid

=

protein

polymer

monomers

Proteins are important because: