



Protein



Carbohydrate



Lipid



Nucleic Acid



Provides energy for  
body



For insulation and  
protection



Stores energy for long term use



Provides short term, quick energy



Monosaccharides are the monomers



Nucleotides are the monomers



Amino acids are the monomers



Made of glycerol and fatty acids



Found in cell walls of plants (cellulose)



Glucose, fructose, sucrose



Build cells and tissues



Carries genetic information



DNA



Fats, oils and waxes



Enzymes



Speed up chemical reactions, lower activation energy



polymer



monomer



Contains CHO



Contains CHON



Contains CHONP



Organic compound



Biomolecule



Polypeptide



Polysaccharide



Sugar, phosphate  
group & nitrogen  
base

Name: \_\_\_\_\_



# Biomolecule Speed Dating

**Directions:** For each round, write or draw both partner's cards. Check if the two cards are compatible and then justify why or why not. Trade cards for the next round.

Round 1	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 2	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 3	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 4	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 5	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not

Round 6	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 7	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 8	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 9	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not
Round 10	Partner 1 Card	Partner 2 Card	Compatible? <input type="checkbox"/> Yes <input type="checkbox"/> No	Justify Why or Why not

# BIOMOLECULES CHART

<b>Biomolecule</b>	<b>Carbohydrate (polysaccharide)</b>	<b>Lipid</b>	<b>Protein (polypeptide)</b>	<b>Nucleic Acid</b>
<b>Monomer</b>	monosaccharide	glycerol & fatty acids	amino acid	nucleotide
<b>Elements</b>	CHO	CHO	CHON	CHONP
<b>Function</b>	body's primary source of energy	energy storage (long-term), insulation, cell membranes, hormones	needed for growth & repair	genetic information storage and protein synthesis
<b>Examples</b>	starches, cellulose	oil, wax, fat	muscle, hair, nails, enzymes	DNA, RNA