Group 1: Macromolecules

€	Slide 1: Title
€	Slide 2: Four types of macromolecules Protein, Nucleic Acid
€	Slide 3: Distinguish macromolecules from nutrients
€	Slide 4: Compare organic to inorganic molecules 1. How do organic molecules differ from inorganic molecules?
	Carbon No C
	2. Give two examples of organic molecules.
	Alcohol, Methane
	3. Give two examples of inorganic molecules.
€	Water, Iron (Fe D)
€	Slide 5: Describe the role/importance of carbon in macromolecules
	4. How may bonds can each atom of carbon form?
	5. The atoms in a covalent bond Shace electrons. (share/gain/lose)
€	Slide 6: Description of polymerization, include descriptions of monomers and polymers
	6. How do monomers and polymers differ?
	monaners · small
	Polymer 5 - Large 7. How are monomers and polymers similar?
	Made of same material
	Mage of Same waters
€	Slide 7: Diagram of a monomer and a polymer
€	Slide 8: Dehydration synthesis; include definition, purpose, and diagram
	8. What happens during a dehydration synthesis reaction?
	9. What small molecule is produced as a byproduct in a dehydration reaction?
	1 W H 2 MAD A MAD
€	Slide 9: Hydrolysis; include definition, purpose, and diagram
€	10. What type of reaction breaks polymers into monomers?
	Hydro lysis > Digest \ water Breoking
_	water Breoking
€	Slide 10: Relate chemical reactions (hydrolysis/dehydration synthesis) and the role of water in living organisms
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	Drink water for hydrolysis

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€	S	املمنا	1.	Title

- € Slide 2: Elements found in carbohydrates; include the ratio of atoms
 - 1. What three elements are found in all carbohydrates? (hint, look at a picture)
- € Slide 3: Monomer unit of complex carbohydrates; include a picture/diagram of the monomer
 - 2. Two monosaccharides joined together form a political factions
 - 3. What does the prefix poly-mean?
 - 4. Most carbohydrates are made from the same monomer. What is the name of this monomer?
- € Slide 4: Role(s) carbohydrates provide/play in organisms
 - 5. What are carbohydrates used for in the body? Entry
 - 6. What is the function of cellulose in plants? Support
 - 7. What is the function of chitin in insects? Shell Skele ton
 - 8. What type of carbohydrate do plants use to store energy?
- € Slide 5: Types of carbohydrates
 - 9. What is one example of a polysaccharide?
- € Slide 6: Food sources; include pictures/diagrams
 - 10. How do people get the glucose they need in their bodies?

Eat-

€ Slide 7: Benefits to consuming monosaccharide to polysaccharides for humans

Frist Energy

long term

€ Slide 8: Review of the good/bad from the nutrient activity

Group 3: Lipids

Follow the directions to make your power point

€ Slide 1: Title

- € Slide 2: Elements found in lipids; include the ratio of atoms compared to carbohydrates
 - 1. What <u>elements</u> make up lipids?

C,O,H,P

€	Slide 3: Monomer unit of fats in general; include a picture/diagram of the monomer 2. How many fatty acids need to be added to glycerol to make one fat molecule?
€	3
€	Slide 4: Are fate hydrophobic or hydrophilic; what does that mean for the blood stream? 3. What is one property that all lipids have in common?
€	water (Hood)
€	Slide 5: Role(s) fats provide/play in organisms 4. Give two examples of ways fats are used in the body? Insulate cushion store energy
	5. What is the function of phospholipids in living things?
	6. Provide one example of how a wax is used in nature. Prevent drying but leaves
_	Slide 6: Types of lipids 7. What is the difference between a fat and an oil? The solution of the content of th
€	Slide 7: Two major types of fat; include chemical description and state of matter at room temp, and source (plant or animal) 8. What are two examples of saturated fats?
€	Slide 8: Food sources; include pictures/diagrams Fried, Meat (Beef)
€	Slide 9: Good vs. bad fat; which is which and why? 9. What is the difference between a saturated fat and an unsaturated fat?
	10. What type of fat is said to be unhealthy and why?
	Saturatel - dissolves worst
	o 4: Proteins or the directions to make your power point
€	Slide 1: Title
€	Slide 2: Elements found in protein 1. What 4 <u>elements</u> make up proteins?
	2. Which of these elements (from question one) is not found in carbohydrates and lipids?
€	Slide 3: Monomer unit of proteins in general; include a picture/diagram of the monomer

Amino Acid

	4. How many amino acids make up all of the proteins in living things? 2 b
	5. What is the bond called that forms between two amino acids?
	6. What is the name of the reaction that joins two amino acids together?
	7. What type of molecule is created as a byproduct when amino acids are joined together?
€	Slide 4: Explain how the variety exists; why are there over 100,000 types in the body? 20 amino acids 1000 aminos long 20 infinite ways to combine the 20 as.
€	Slide 5: Role(s) protein provide/play in organisms (at least 5) 8. What are proteins used for in the body? - buld most body pasts - runs all functions
€	Slide 6: Types of protein 9. What are two examples of proteins in living things? Keratin - leathery stuff skin, Hair, neils Hemoglobin - red. corries 0, in blood.
€	Slide 7: 4 levels of organization and structure
٦	10. What must be done to a polypeptide chain to make it a functioning protein? Tections - flas to fold into correct 3D Shape Slide 8: Food sources; include pictures/diagrams
	Meat, Doiry, Nots, beans, eggs
	52 lards
	How many 2 card combos?
	52 2