Macromolecules Worksheet

1.	What are the four main macromolecules?
2.	Which type of macromolecule provides immediate energy and stores energy on a short-term basis?
3.	Which type of macromolecule controls the cell activities by directing protein synthesis?
4.	What kind of bond holds amino acids together?
5.	How can a chain of amino acids turn into a protein?
6.	What is the monomer of a nucleic acid called?
7.	What two functions do nucleic acid have? a
	b
8.	What are the three parts that make up a nucleotide? a b c
9.	What kind of bond holds the two double helix strands together?

10. Draw the general chemical structure of an amino acid.

Answers

Macromolecules Worksheet

- What are the four main macromolecules? carbohydrate, lipid, protein, and nucleic acid
- 2. Which type of macromolecule provides immediate energy and stores energy on a short-term basis?

 carbohydrate (glucose)
- 3. Which type of macromolecule controls the cell activities by directing protein synthesis? protein and nucleic acid
- 4. What kind of bond holds amino acids together? peptide bond
- 5. How can a chain of amino acids turn into a protein?
 A chain of amino acids turning into a protein involves transcription, mRNA processing,
 translation, RNA and amino acid attachment, polypeptide folding, post-translational
 modifications, and protein transport and targeting.
- 6. What is the monomer of a nucleic acid called? nucleotides
- 7. What two functions do nucleic acid have?
 - a. Store genetic information
 - b. Transmit inherent characters from one generation to the next
- 8. What are the three parts that make up a nucleotide?
 - a. Nitrogenous base b. 5 carbon sugar c. Phosphate group
- 9. What kind of bond holds the two double helix strands together? Hydrogen
- 10. Draw the general chemical structure of an amino acid.