Riddles

- 1. Characteristics of Living Organisms
- I can grow, I can breathe,

I can reproduce, and I can feed.

What am I that shows these signs?

Alive I am, with body and mind.

(Answer: Living Organism)

- 2. Basic Classification
- I group the living into five grand classes,

From the smallest germs to the largest masses.

I'm a kingdom so vast, what could I be,

With Plantae, Fungi, and others to see?

(Answer: Five Kingdoms of Classification)

- 3. Cell Theory
- I say all living things are built from me,

With cells being the base, don't you see?

Where do you start, where do you begin?

I am the theory that life comes from within.

(Answer: Cell Theory)

- 4. Structure of Prokaryotic and Eukaryotic Cells
- Simple or complex, I house life's key,

With no nucleus or with one, you see.

One is old and the other is new,

What am I? Can you give me a clue?

(Answer: Prokaryotic and Eukaryotic Cells)

- 5. Biomolecules Carbohydrates
- Sweet like sugar or starchy as bread,

I give you energy, keeping you fed.

What am I, made of C, H, and O,

Providing fuel wherever you go?

(Answer: Carbohydrates)

- 6. Biomolecules Lipids
- I'm stored energy, with layers to keep,

I'm found in butter, oil, or deep.

I don't mix with water, no matter how hard you try,

What am I, giving insulation by?

(Answer: Lipids)

- 7. Biomolecules Proteins
- I build and repair, that's what I do,

In meat and beans, you'll find me too.

Enzymes, hormones, and much more,

What am I, with amino acids at my core?

(Answer: Proteins)

- 8. Biomolecules Nucleic Acids
- I hold the code for who you'll be,

In DNA and RNA, you'll find me.

Passed from parent to child with care,

What am I, the blueprint you share?

(Answer: Nucleic Acids)

- 9. Vitamins and Enzymes
- I speed things up, but I don't get tired,

I'm not consumed, but often required.

And though I'm small, I keep you well,

You need me more than you can tell.

(Answer: Enzymes and Vitamins)

- 10. Genes and Chromosomes
- I'm the thread of life, wrapped up so tight,

Carrying instructions from day to night.

I decide your traits, your hair, and eyes,

What am I, the package that's wise?

(Answer: Genes and Chromosomes)

Multiple-Choice Questions (MCQs)

1. Characteristics of Living Organisms	
- Which of the following is NOT a characteristic of living organisms?	
a) Reproduction	
b) Metabolism	
c) Growth	
d) Non-responsiveness	
(Answer: d) Non-responsiveness	
2. Basic Classification	
- Which kingdom includes multicellular, photosynthetic organisms?	
a) Monera	
b) Fungi	
c) Plantae	
d) Protista	
(Answer: c) Plantae	
3. Cell Theory	
- Who proposed the cell theory?	
a) Watson and Crick	
b) Schleiden and Schwann	
c) Mendel	
d) Darwin	
(Answer: b) Schleiden and Schwann	

4. Structure of Prokaryotic and Eukaryotic Cells
- Which of the following is found in eukaryotic cells but not in prokaryotic cells?
a) Cell membrane
b) Nucleus
c) Ribosomes
d) DNA
(Answer: b) Nucleus
5. Biomolecules - Carbohydrates
- Which of the following is a disaccharide?
a) Glucose
b) Fructose
c) Sucrose
d) Glycogen
(Answer: c) Sucrose
6. Biomolecules - Lipids
- Which of the following is a function of lipids?
a) Genetic information storage
b) Energy storage
c) Oxygen transport
d) Enzyme activity
(Answer: b) Energy storage

7. Biomolecules - Proteins
Proteins are made of which monomer?
a) Nucleotides
b) Fatty acids
c) Amino acids
d) Monosaccharides
(Answer: c) Amino acids
3. Biomolecules - Nucleic Acids
DNA and RNA are composed of units called:
a) Amino acids
b) Fatty acids
c) Nucleotides
d) Sugars
(Answer: c) Nucleotides
9. Vitamins and Enzymes
Which of the following is a vitamin?
a) Hemoglobin
b) ATP
c) Vitamin C
d) Insulin
(Answer: c) Vitamin C

10. Genes and Chromosomes

- What is the structure that carries genetic material in cells?						
a) Nucleus						
b) Chromosome						
c) Mitochondria						
d) Ribosome						
(Answer: b) Chromosome						
Puzzle						
Crossword Puzzle - Biomolecules						
Create a crossword puzzle with the following clues:						
Across:						
3. This biomolecule stores energy and provides insulation (Lipids).						
5. This sugar is a disaccharide composed of glucose and fructose (Sucrose).						
7. This is the monomer unit of proteins (Amino Acid).						
Down:						
1. The building blocks of DNA and RNA (Nucleotides).						
2. A protein that speeds up reactions without being consumed (Enzyme).						
4. Organic molecules that are vital for life and must be consumed in small amounts (Vitamins).						
6. A complex carbohydrate that stores energy in animals (Glycogen).						