

Physical Science

Week 9 – Text pp. 185 – 191

Day 1 Read pp 185-186

1. Amino acids are linked together into proteins by _?_.
2. The _?_ group of one amino acid reacts with the _?_ group of another amino acid.
3. Most protein chains consist of how many amino acids?
4. Name two categories of proteins and the characteristics of each.
5. What are enzymes?
6. How is papain used?

Day 2 Read pp 187-188

1. What are nucleic acids?
2. Why is DNA so important?
3. All your cells have 23 pairs of chromosomes in the nucleus composed of DNA (except red blood cells). They contain _?_.
4. The structure of the DNA molecule can be described in 2 words. What are they?
5. There are 4 smaller molecules, or bases, which compose a DNA molecule. What are their names?
The order in which these are connected together determines your genetic code. Think of the alphabet. The way the 26 letters are put together determines all the words in the English language.
6. What is a gene?
7. Why is RNA called a messenger?

Day 3 Read p 189.

1. What is replication? Mutation?
2. What factors can cause the replication process to fail?
3. What do evolutionists claim about mutations? What are the flaws in this line of reasoning?
4. Scientific observation has established that mutations are almost always _?_.

Day 4 Read pp 190-191

1. 1. The most important carbohydrate fuel in the body is _?_.

Read the paragraph on p 181 titled carbohydrates.

2. Write the equation for cellular respiration. (This is the reverse of _?_).
3. ATP can be thought of as the _?_ of the cell.
4. Look at the illustration at the top of p191. What group of atoms breaks off from ATP when energy is released?

Day 5 Page191- Do Section Review 7.3.

Next week we will spend part of the time going over this assignment and part of the time taking the unit test which will include all of the topics we've covered up to the present time. Review your past assignments.