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DNA Structure and Replication Review:

DNA: The Molecule of Heredity

1. A nucleotide is made of three parts: a

_____ group, a five carbon _____ and a nitrogen containing _____

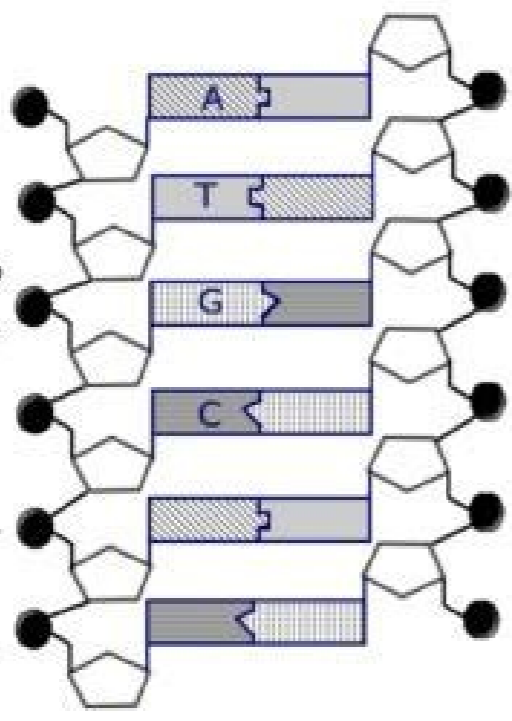
2. In a single strand of DNA, the phosphate group binds to the _____ of the next group.

3. Chargaff's rule states that the DNA of any species contains equal amounts of _____ and also equal amounts of _____

4. In DNA, thymine is complementary to _____; cytosine is complementary to _____

5. In a strand of DNA, the percentage of thymine is 30%. What is the percentage of cytosine in the same DNA strand? _____

6. James Watson and Francis Crick with the help of Rosalind Franklin and others, determined that the shape of the molecule was a _____



DNA Structure, DNA Replication, and Protein Synthesis Review

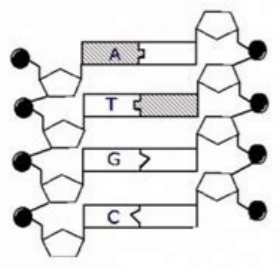
1. A nucleotide is made of three parts: a _____ group, a five carbon _____ and a nitrogen containing _____
2. In a single strand of DNA, the phosphate group binds to the _____ of the next group.
3. The 3' end of a single DNA strand contains a free _____ while the 5' end contains a free _____

4. Purines have _____ rings, and pyrimidines have _____ ring.

5. Write out the complete name for DNA.

On the diagram:

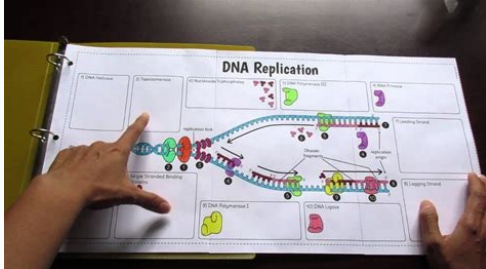
- Label the 3' and 5' ends.
- Circle a nucleotide.
- Label the sugar and phosphate.
- Label the bases that are not already labeled.



6. The two sides of the DNA helix are held together by _____ the pyrimidines are _____ and _____

7. The term used to describe how the two strands of DNA are oriented is _____ which means _____

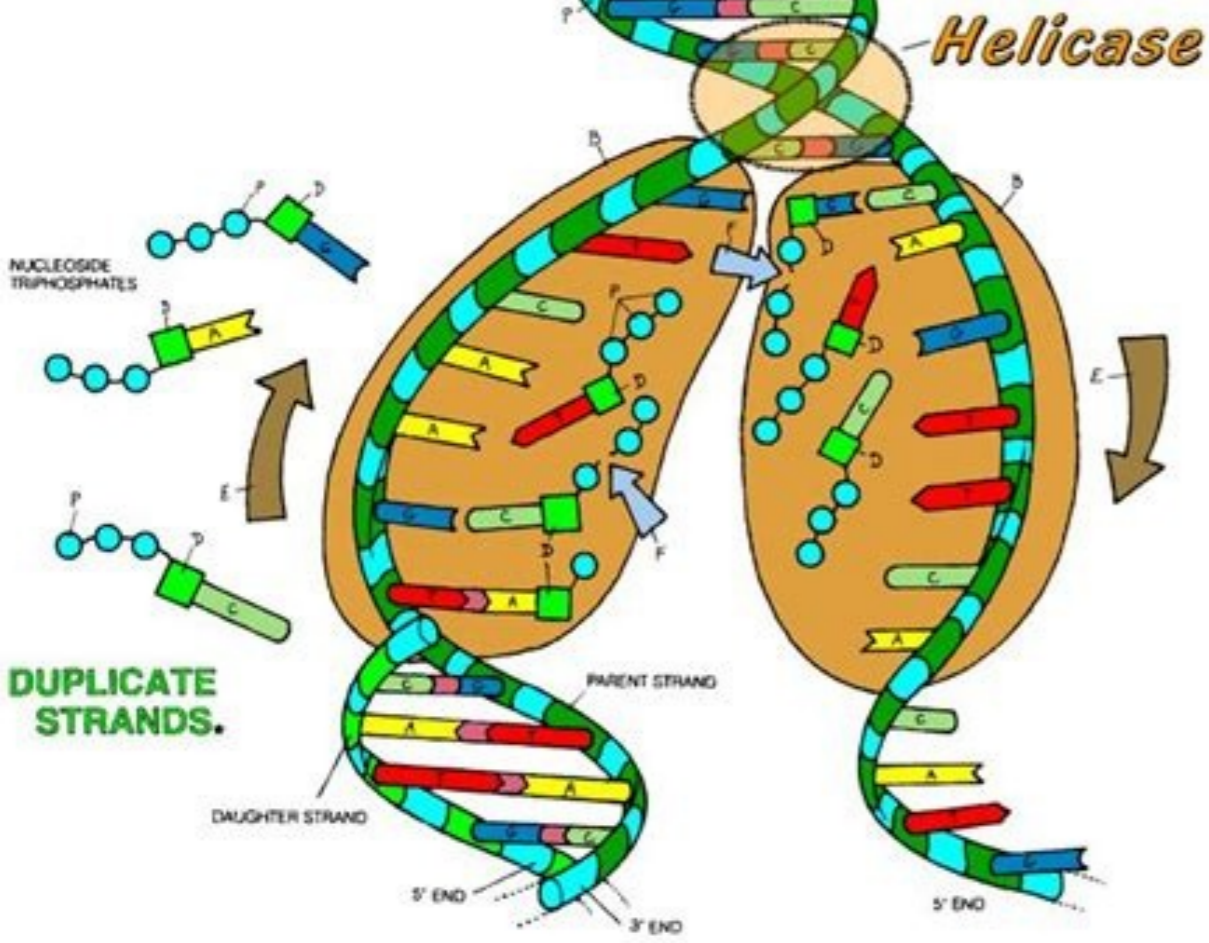
8. In a strand of DNA, the percentage of thymine is 30%. What is the percentage of cytosine? Adenine? Thymine?



DNA REPLICATION.

- DEOXYRIBOSE.
- PHOSPHATE.
- ADENINE.
- THYMINE.
- CYTOSINE.
- GUANINE.
- HYDROGEN BOND.

- UNZIPPING AND REPLICATION.
- DNA POLYMERASE.
- DIRECTION OF SYNTHESIS.
- HYDROLYSIS.

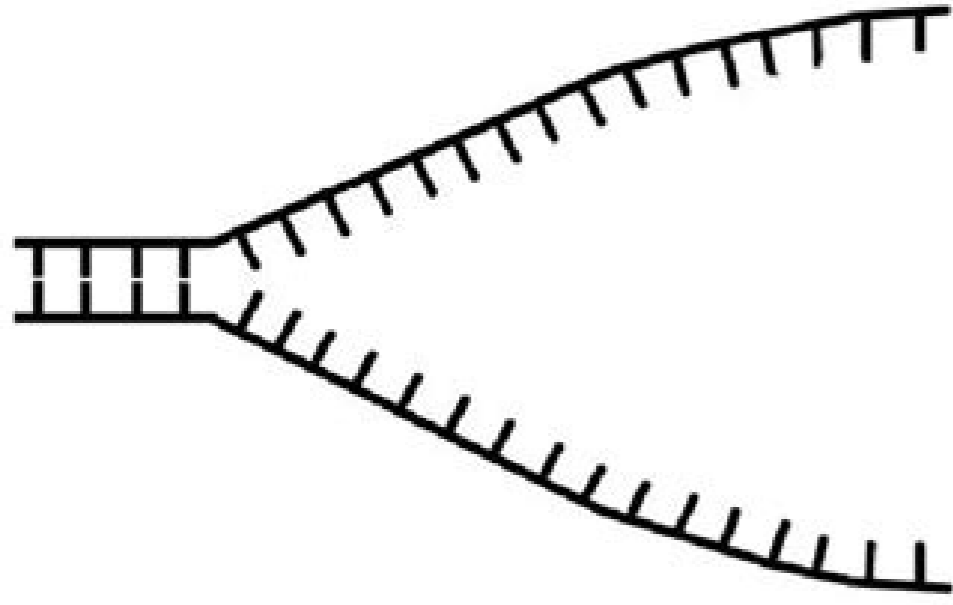


DNA Replication Drawing

Name: _____

Using pencil, you will draw a representation of DNA replication along the leading and lagging strands. Follow the directions below, drawing each element in its proper location along the replicating DNA strand. Once you are sure everything is in the correct place, complete your drawing by adding color to distinguish objects as separate.

1. On the diagram below, label the 5' and 3' ends of both parental DNA strands (you can make up which is which)
2. Label the replication fork
3. Draw and label helicase
4. Label the overall direction of DNA replication
5. Draw and label single stranded binding proteins
6. Draw and label the leading strand
7. Draw and label a single DNA polymerase III on the leading strand
8. Draw and label an RNA primer on the leading strand
9. Draw and label a DNA polymerase I on the leading strand
10. On the lagging strand, draw and label at least three Okazaki fragments
11. On the lagging strand, draw and label at least two DNA polymerase III enzymes
12. On the lagging strand, draw and label at least two RNA primers
13. On the lagging strand, draw and label at least one primase enzyme
14. On the lagging strand, draw and label at least one DNA polymerase I enzyme
15. On the lagging strand, draw and label at least one DNA ligase enzyme



Dna replication practice worksheet drawing answer key.

It responds to the environment. It grows and develops and dies. It produces offspring. It maintains homeostasis. It has complex chemistry, and it consists of cells. It obtains and uses energy. The four unifying principles of biology are cell theory, gene theory, homeostasis and evolution. The outline levels of organization of a complex, multicellular organism such as a mouse, starting with the cell is: The Cell - then Tissue - then Organ - then Organ System - to Finally Organism (the mouse) Homeostasis is the process of maintaining a stable internal environment. Breathing is an example of homeostasis. 3500 40 6th Man was created in God's image. It is good. Every tree except the tree of the knowledge of good and evil. Yes. (Pet peeve-The picture of the angel. We are never told in the Bible that angels have wings.) Satan fell because of his pride. The sugar was in the water. When the water was heated, more sugar was able to be dissolved. As the water cooled, it couldn't hold the sugar anymore, and it reappeared, coming out of the water. The sugar is abiotic. It was not reproducing and dying. You are only seeing the sugar that was added into the water in the first place. Characters Of Living Questions Biology is the study of living things. Cells are the smallest unit of life capable of carrying out all the functions of living things. The small structures within cells are called organelles. A, B, D Two types of reproduction are sexually and asexually. An organism needs a constant supply of energy and materials to carry out its essential processes to stay alive. Metabolism is the chemical processes that occur within a living organism in order to maintain life. Homeostasis is the process of maintaining a stable internal environment. Science and the Natural World 3. A hypothesis is a possible answer to a scientific question, but it isn't just any answer. Characteristics of a hypothesis are: must be based on scientific knowledge, and it must be logical, and must be falsifiable. 5. A natural study shows what actually occurs in nature. Therefore, it may provide a truer picture of what happens in the real world than an experiment does. Independent/Manipulating Variable: amount of exercise a person gets Dependent/Responding Variable: the time it takes to run a kilometer Independent/Manipulating Variable: The higher temperature of water Dependent/Responding Variable: the faster the egg will cook Independent/Manipulating Variable: If keeping the lights on for different amounts of time each day Dependent/Responding Variable: the number of eggs chickens laid Independent/Manipulating Variable: at different depths Dependent/Responding Variable: the temperature of water in a lake varied Independent/Manipulating Variable: is watered weekly than grass that is not watered Dependent/Responding Variable if grass will grow taller Lesson 13 A hypothesis is a possible explanation for a set of observations or an answer to a scientific problem that can be tested. The independent (manipulated) variable is the variable that is deliberately changed. Experiments should have only one variable is being tested. When all other variables are unchanged/controlled, we now the response (dependent/responding variable) is due to the one variable being changed. A controlled experiment will have an experimental group and a control group. The experimental group is the manipulated group to which the independent variable is applied. The control group is exposed to all the same conditions as the experimental group EXCEPT for the independent variable. This also supports that the response is due to the independent variable change. The dependent (responding) variable is the variable that is observed and that changes in response to the manipulated variable. This may vary some. You will need to determine if your experiment would adequately test the effect of water temperature on a fish's breathing rate. Materials might include a fish bowl with water and a fish, a heat lamp, a thermometer, a stopwatch Procedure: Take temperature of water in fishbowl (without heat lamp applied). Record number of breaths/gill movements within a 30 sec-1 min time frame. Apply heat lamp to raise temperature. Record number of breaths/gill movements within same time intervals at higher temperature. Manipulated variable would be water temperature. Control would be the same fish. Dependent variable - breaths/gill movements of the fish Petrozip vs Flashfuel Answers may vary. My example is "A car using Petrozip will get better fuel mileage than the same car using Flashfuel." The manipulated variable would be the fuel brand. I car, specific distance driven Same car, same distance and driving conditions. Miles per gallon Data Interpretation Yes, same distance was driven in both tests Petrozip Lesson 20 DNA has sections that signal for the beginning of a coding sequence as well as a DNA section that signals for the ending of a coding sequence. The possibility of damage to the DNA is minimized by having only small sections opened up at any time. Hummingbirds can beat their wings fast enough to hover in midair and they have long bills and tongues which allow them to drink from the nectar of flowers. The nervous system is a complex network of nervous tissue that carries electrical messages throughout the body. Skeletal muscle responds to nervous system signals and interacts with the skeleton to causes Voluntary muscle contraction. Plastids, Cytoplasmic organelle in plants, bounded by a double membrane that carries its own DNA and is often pigmented. Chloroplasts are plastids. Cholesterol is the component of the cell membrane provides stability. Since oxygen is not very soluble in water (the major constituent of blood), an oxygen transport protein must be used to allow oxygen to be 'soluble'. Hemoglobin (Hb) is the oxygen transport protein used in the blood of vertebrates. The peroxisome gets rid of toxic peroxides and digests fatty acids. The lysosome digest proteins (these can be membrane proteins i.e. receptors). The fungus just grows on its food. They secrete a wide range of extracellular enzymes into the environment to increase the availability of the nutrients they need (eg., ligninase, hemicellulase, amylase, chitinase, keratinase) which is how they contribute to nutrient recycling in nature. Secreted proteins are produced "in" the ER. When transcription is about to occur a ribosome interacts with the ER and "inserts" a protein in it. This protein is then transported through vesicular transport to the golgi for further processing. Soluble proteins of the cell are produced in the cytoplasm by free ribosomes. All the proteins are transported between organelles through membrane trafficking (vesicular transport) which involves the cytoskeleton (microtubules) as well as proteins that "carry" the vesicles along the microtubules. The double membrane structure of the mitochondria allows for the isolation of H+. Endocytosis. This is a very complex process involving receptors (receptor mediated endocytosis) the cytoskeleton as well as many proteins that "tag" the vesicles for transport to appropriate parts of the cell. Prokaryotic cells are cells without a nucleus and are found in single-celled organisms Eukaryotic cells are cells that contain a nucleus. Eukaryotic cells have other organelles besides the nucleus. The only organelles in a prokaryotic cell are ribosomes and are found in multi-celled organisms. In vascular plants, stems are the organs that hold plants upright so they can get the sunlight and air they need. Lesson 21 Electron microscope 1-All organisms are composed of cells. 2-Cells are alive and the basic living units of organization in all organisms. 3-All cells come from other cells. NO, because all cells come from other cells Lesson 31 The process of diffusion is molecules are said to flow down their concentration gradient, flowing from an area of high concentration to an area of low concentration. The diffusion of water across a membrane because of a difference in concentration is called osmosis. It would be a hypertonic solution because with a hypertonic solution means the environment outside of the cell has more dissolved material than inside of the cell. If a cell is placed in a hypertonic solution, water will leave the cell. This can cause a cell to shrink and shrivel. Lesson 33 c b a b b a, a, a, b a When celery is placed in tap water (hypotonic), the water will flow into the celery, making it swell. When celery is placed in sugar water (hypertonic), water will flow out of the celery into the sugar water, making the celery shrivel. left Water will flow from the 85% water cell into the 70% water solution (shown). Water will flow from the 2% salt cell into the 25% salt solution. Water will flow from the 90% water solution into the 14% salt (86% water) cell. Water will flow from the 2% NaCl (98% water) cell into the 10% glucose (90% water) solution. Loading... Skip to Main Content Education for Ministry (EfM) is a unique four-year distance learning certificate program in theological education based upon small-group study and practice. Since its founding in 1975, this international program has assisted more than 120,000 participants in discovering and nurturing their call to Christian service. EfM helps the faithful encounter the breadth and depth of the Christian tradition and bring it into conversation with their experiences of the world as they study, worship, and engage in theological reflection together. The program invites participants into small, mentored groups that provide the framework for understanding life and shaping actions as Christian faith is deepened. 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