

AP Biology 027 – DNA & RNA (Part 2)

Video Review Sheet

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1. Structure of DNA and RNA
 - a. RNA is a _____ whereas DNA is...
 - b. What three parts do they have in common?
 - c. What sugar is in place of deoxyribose in RNA?
 - d. What base is in place of thymine in RNA?
2. DNA replication:
 - a. First step: ____ zip it
 - b. Can only add new bases on the ____ prime end.
 - c. Lagging strand has to _____ stitch
3. Central Dogma:
 - a. Who coined the term?
 - b. It explains how DNA → RNA →
 - c. First step:
 - d. The copy of DNA is called:
 - e. DNA stays within the
 - f. mRNA will feed through a (big green structure):
 - g. tRNA brings in
 - h. amino acids are the building blocks of
 - i. Translation: mRNA →
 - j. Phenotypes: what you physically
 - k. Changes to the DNA will ultimately cause changes in the
 - l. The extended phenotype: an _____ of genes and selected for. The behavior is selected for.
4. Genetic Engineering:
 - a. Since DNA is _____ you can insert genes from humans into:
 - b. You can even insert human genes into:

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