

BTR () DNA Structure Review

1. What do the letters DNA stand for?
2. What is the shape of a DNA molecule?
3. What two biologists were the first to discover the shape of a DNA molecule in 1953?
4. Where is the genetic code hidden in the DNA molecule?
5. How many different letters are used to make a DNA code and what are their names?
6. How many TOTAL letters are found in one human blueprint (from one end to the other end)?
7. What is a DNA gene?
8. How many total genes are in one human blueprint?
9. What is a chromosome?
10. How many TOTAL chromosomes does it take to hold one human blueprint?
11. What is the “Building Block” monomer of a DNA molecule called?
12. What is the DNA monomer “BB” (#11) SHAPE and what are the 3 sub-components?
13. Explain the base-pairing rules for DNA?
14. Draw a diagram of the DNA gene: **T A G**
 - Label several covalent and hydrogen bonds
 - Outline 1 nucleotide
 - Circle the DNA backbones
 - Explain why your DNA gene is Antiparallel