| Bill Nye – Genes | | | Date | |
|------------------|--|---|---|--|
| 1. | What does DNA stand for? | | | |
| 2. | How long is a DNA molecule? | | | |
| 3. | Thousands of genes join together to | make a | | |
| 4. | Genes are the set of chemical to | | that are passed on from | |
| 5. | Where are genes stored? | | | |
| 6. | Humans have pairs of chro | omosomes for a total of | chromosomes. | |
| 7. | Humans have approximately | genes. | | |
| 8. | Human genes can combine in appro | oximately | different combinations. | |
| 9. | What are the four chemicals that make up the DNA sequence of all living things? | | | |
| <u>Pr</u> | actice Questions: | | | |
| | 11. In DNA, the set of instructions t A. gene B. chromosome | hat code for a protein is a C. nucleic acid D. nucleotide | | |
| | 12. The chemical backbone of a DN A. True B. False | NA strand is made up of alterr | nating phosphate groups and ribose suga | |
| | 13. How are the two strands of the A. covalent bonds B. hydrogen bonds | DNA double helix held togeth C. ionic bonds D. DNA bonds | er? | |
| | 14. Which of the following nucleotide pairings is correct for a A. cytosine – thymine C. thymine – gua B. adenine – guanine D. guanine – cyt | | e | |
| | 15. If a DNA strand is composed of A. 60% cytosine B. 40% thymine | 40% adenine, it would be ex C. 60% thymine D. 40% guanine | pected to also have | |
| | 16. What is the complimentary base A. CCGTAAGC B. GGCTAACG | e sequence for AATCGGTA? C. TTAGCCAT D. TTACGGAT | | |