Modern Genetics

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|  |  |  | A |  | E |  |  |  |  |  | L |  | I |  |  | M |  |  |  | N |  |  | 9  C |  |  |  | 10  G |  |  |
|  |  |  | N |  | B |  |  |  |  |  | 11  T | R | N | A |  | P |  |  | 12  K | A | R | Y | O | T | Y | P | E |  |  |
|  |  |  | G |  | R |  |  |  |  |  | I |  | G |  |  | L |  |  |  |  |  |  | D |  |  |  | N |  |  |
|  |  | 13  G | E | N | E | T | 14  H | E | R | A | P | Y |  |  | 15  S | E | X | C | H | 16  R | O | M | O | S | O | M | E | S |  |
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|  |  |  | O |  | D |  | B |  |  | 17  P | E | D | I | G | R | E | E |  |  | B |  |  | I |  |  |  | I |  |  |
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| **Across**  **3.** is pattern of a trait that is controlled by two or more genes  **6.** ribonucleic acid  **11.** carries amino acids o the ribosomes  **12.** photograph of a persons chromosome arranged in pairs  **13.** involves inserting copies of a gene directly into a persons cell  **15.** 23rd pair of chromosomes in a human  **17.** diagram or family tree  **18.** organism that has exactly the same genes as another  **19.** all the DNA in one cell of an organism  **20.** traits controlled by genes located on the sex chromosomes  **21.** first 22 pairs of homologous chromosomes  **22.** any change in a gene | **Down**  **1.** process of selecting organisms with desired traits  **2.** involves crossing 2 individuals that have similar characteristics  **4.** when neither allele is completely dominate  **5.** project to identify the DNA sequence  **7.**  when there are more than 2 alleles for a genetic trait  **8.** copies of coded messages from DNA  **9.** when both alleles show equally  **10.** genes from one generation are transferred into DNA  **14.** breeders cross 2 genetically different individuals in hopes of offspring having best traits from both parents  **16.** sugar in RNA |