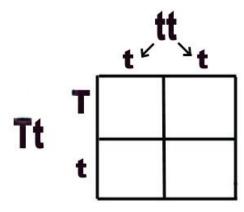




| | Heredity |
|----------|---|
| | 1. What is meant by the term "heredity"? |
| <u> </u> | 2. Draw a picture of an animal cell and label the following parts: Cell membrane, cytoplasm, nucleus, nuclear membrane, ribosomes |
| | |
| | |
| <u> </u> | 3. What is a chromosome and where are they located? |
| | What is a gene and where is it found? |
| - | 4. What is meant by the term "allele"? |
| | |

| How does a dominant allele differ from a recessive allele? |
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| |
| |
| Determine which allele you have of the following genetic traits: |
| Widow's peak |
| Free earlobe |
| |
| Dimples |
| |
| Curved Thumb |
| |
| Bent pinky |
| |
| Digit hair |
| Rolling tongue |
| |
| Second toe longer |
| |
| |

Using a punnet square, predict the ratio of offspring produced from these monohybrid crosses: TT (tall) crossed with tt (short), Tt (tall) crossed with Tt (tall), Tt (tall) crossed with tt (short)



| | equence of cells , metaphase, ana | | | tosis including: |
|--------------------|--------------------------------------|----------------|---------------|------------------|
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| Briefly e process. | xplain how the D | NA in the chro | omosomes is o | copied during th |

| | | | | | | osis includin telophase I & |
|--------|------------|-------------|-----------|-----------|-----------|--------------------------------|
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| | | | | | | |
| Do the | cells resu | ılting from | meiosis r | emain hap | oloid? Ex | plain. |

| _ | Describe how DNA encodes the specific proteins that result in genetic traits. Demonstrate you knowledge of this process by using diagrams or paper models. |
|----------|--|
| <u> </u> | What is a mutation? Using the diagrams or models created in question 7 to illustrate the effect of a mutation on the genetic trait. |
| <u> </u> | Know at least five genetic disorders and tell a story about a famous person or someone that you know who has had one of these disorders. 1. |
| | 2. 3. |
| | 4 |
| <u> </u> | 0. Is Biological Heredity the only factor contributing to your character, i.e., what makes you who you are? |
| <u> </u> | 1. Find 3 statements from Ellen Whites writings that relate to the previous |
| | question 1 2 |
| | 3 |
| e comple | 2002 Ed Instructor's Signature Update |