Genetics & Heredity Study Guide

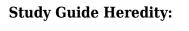
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- 1. Why do cells need to produce new cells? For growth, repair, and reproduction
- What is the result of mitosis? 2 new cells (daughter cells)
- Heredity _____ is the passing of traits from parents to offspring.
- 4. What trait appears in the first generation? Dominant trait
- What trait appears in the second generation? Recessive trait
- Traits _____ are different forms of a characteristic.
- 7. What are alleles? Different forms of a gene
- Instructions for an inherited trait are called __Genes_____.
- Use a Punnett square to determine the possible genotypes of the offspring of a YY x Yy cross.
 YY, Yy
- 10. What does each parent give off to the offspring? One set of genes for each trait
- 11. What does it mean when an organism is homozygous for a trait? It will have the same alleles; two dominant or two recessive
- Characteristic ______ is a feature that has different forms in a population.
- 13. The process that produces sex cells is called Melosis
- 14. What cells are produced during asexual cell reproduction?
 - Somatic or body cells; all body cells except sex cells
- 15. How are sex cells different from other human cells? Sex cells only contain half of the genetic material
- 16. Where are genes located? Sections of DNA located in chromosomes
- 17. How many cells are produced during meiosis? 4 new cells with only half of the genetic material
- 18. Who was Gregor Mendel? A scientist who discovered the principles of heredity while studying pea plants
- Draw a picture a DNA model. Describe the shape of DNA.
 Double helix
- DNA is made of subunits called _Nucleotides_____.
- 21. What is chromatin? DNA coiled, or wrapped, around proteins
- 22. What is DNA fingerprinting? Identifies a person's unique DNA pattern
- 23. What are mutations? Changes in the number, type, or order of bases on a piece of DNA
- 24. To be copied, a DNA molecule splits where? Down the middle
- 25. What letters represent the four bases in a DNA molecule?



Study Guide Heredity

Staffan Müller-Wille, Christina Brandt



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