

## Biology Chapter 11 Study Guide DF

1. Define genetics.
2. Who was Gregor Mendel and what did he contribute to genetics?
3. Describe a “true-breeding” plant.
4. Make a sketch of a pea flower and label the male and female parts.
5. Describe how to cross-pollinate a plant.
6. Name the seven traits of pea plants that Mendel investigated.
7. Describe three things that Mendel found from his experiments ( In Detail! P.265-266)
8. Describe genes and dominance.
9. What is segregation?
10. Explain the F1 cross.
11. How do geneticists use the laws of probability?
12. What are Punnett Squares and how are they used? Draw one ( hint: see fig. 11-7 )
13. Describe the principle of independent assortment.
14. Summarize Mendel’s Principles.
15. What are complete and incomplete dominance and how do they differ?
16. Tell what polygenic traits are and list one in humans.
17. Describe multiple alleles and tell how they differ from polygenic traits. Name one multiple allele in rabbits.
18. Describe the process of meiosis and tell exactly how it differs from mitosis. ( Compare and contrast the two processes. Diagrams are encouraged! )
19. Describe gene linkage and gene mapping.
20. What is crossing over and describe how it works?