Name:_____Period:_____

AP Biology Unit 5. Campbell Ch.13-15. Your task is to create a quick study card for the Exam. MUST be handwritten. **Accuracy, Neatness – Use ruler to draw charts, tables, etc. and appropriate use of color.** Color needs to be embedded and used appropriately (**DO NOT just color large sections different colors.)** Title of the Quick Study Card in the Top Center of the page First and Last Name, Date in upper right.	**checklist**
1. Science skills: How is a chi square test carried out? What do its results tell you? What types of data are suitable for chi square analysis?	
2. Diagram the stages of meiosis for a cell with 6 chromosomes. Use color to indicate maternal/paternal chromosomes. Will you always get the same final gametes?	
3. Make a chart to compare and contrast meiosis and mitosis.	
4. Diagram crossing over. When does it happen and what is its importance?	
5. List the mechanisms which create genetic variation in sexually reproducing organisms.	
6. List at least 4 conserved processes, molecules, or cell components which support the concept of a universal common ancestor.	
7. Define Mendel's two laws and state their cellular basis and limitations.	
8. How do we use probability rules to predict the results of genetic crosses? Cite equations.	
9. Diagram simple pedigrees for a dominant trait, a recessive trait, and a sex-linked recessive trait. Label with appropriate genotypes.	
10. What is gene linkage? How do results of genetic crosses indicate linkage? How are map distances calculated?	
11. Not all traits follow Mendelian patterns. Explain how this statement applies to: a. multi gene traits, b. mitochondria and chloroplasts.	
12. Give an example of how environment can influence phenotype. Define plasticity.	
13. Give evidence for the chromosomal theory of Inheritance.	
14. Make a chart of 3 human genetic disorders, their symptoms, and their causes.	
15. Draw Punnett squares for a monohybrid cross, a sex-linked cross, and a dihybrid cross. Give the expected phenotype and genotype ratios for each.	
TOTAL	