**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: 12/7/15 Mr. Hood AP Bio Per: \_\_\_ [II-Notes]**

**Bozeman Video – Linked Genes**

1. Which scientist was responsible for identifying genes that were linked?
2. Name two traits that are distinguishable only in the male fruit fly.
3. What does the “+” sign superscript mean?
4. What does a “Parental Cross” mean? What genotype do both parents have?
5. What does a “F1 Cross” mean? Draw the Punnett square for this cross. Label genotype and phenotype--parental or recombinant (non-parental).

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1. What are the gametes from a parent that is bl+ bl vg+ vg?
2. What is the phenotype of an offspring that is blbl vg+ vg?
3. Why can you ignore sex-linkage in the next cross?
4. Why did the results freak out Thomas Morgan?
5. What was the ratio supposed to be according to Mendel?
6. How can one describe the location of linked genes?
7. What process in meiosis can create **recombinant phenotypes** by increasing the genetic variability in gametes?
8. What is the factor that determines whether or not genes will cross over?
9. If the frequency of the recombination is 50% or greater, what does that tell you about the location of the genes?