**Chapter 10 Review Sheet**

**10. 1 Meiosis**

 Vocab: chromatid, chromosome, homologous chromosomes, sister chromatids,

Sources of variation, phase it happens in

Crossing over

Chiasmata

 Recombination (recombinants) vs wild type

 Independent assortment/ Random orientation

**10.2 Genetics and Evolution**

 Exceptions to Mendel’s rules

 Test cross results for dihybrid crosses

 Linked gene format and possibilities:



Polygenic traits

Chi square test to determine if traits follow regular Mendel rules, or are linked, or sex linked…

 Understanding of expected ratios (9:3:3:1 or punnett square)

**10.3 Gene Pools and speciation**

 Gene pool, allele frequency, speciation

Directional, stabilizing, disruptive frequency change (definition and graphs)

 Types of reproductive isolation

 Gradualism vs punctuated equilibrium

 Polyploidy

 Hardy Weinberg

 Equations?

 What does p mean? What does q mean?

 What does p2 mean? What does q2 mean? What does 2pq mean?

 Why do you need to get q2 first?