

Genetics Unit Review

- Genetic vocabulary – chromatin, centrioles, centromeres, spindle fibres, cytokinesis, spermatocytes, oocytes, homologous pairs, crossing over, nondisjunction, trisomy, allele, dominant, recessive, heterozygous, homozygous, monohybrid cross, genotype, phenotype, Punnett square, test cross, gene, sex linked traits, nucleotide, complementary base pair
- Mitosis – phases and what happens in them, what is produced
- Meiosis – phases, outcome, what happens to homologous pairs in meiosis I vs Meiosis II
- Structure of DNA
- Figure out the genotype and phenotype for F₁ and F₂ generations for monohybrid crosses
 - Calculating the probability of a phenotype or genotype given a cross
- Know what multiple alleles are (Blood type)
- How sex linked traits are passed on and solve problems involving them
- Pedigree analysis
- Genetic Disorders
- Chromosome nondisjunction – what it is, karyotype charts, Turner's, Klinefelter's, Down's, supermale, superfemale
- Process of cloning plants and animals