

Quiz #4 Review

Lab 10 – Mitosis & Meiosis

Key terms:

mitosis (know stages)	cleavage furrow
meiosis (know stages)	cell plate
cytokinesis	spermatogenesis
chromosome	oogenesis
sister chromatids	polar bodies
centromere	crossing over
homologous chromosomes	haploid
spindle fibers	diploid
centriole	chromosome number
interphase	prophase I & II
prophase	metaphase I & II
metaphase	anaphase I & II
anaphase	telophase I & II
telophase	

Be able to:

- Name the stages of the cell cycle and identify what is happening in each.
- Name the stage and state of what is happening is given a diagram or slide depicting mitosis or meiosis.
- Explain the differences between oogenesis and spermatogenesis in mammals.
- Given a parent cell with any chromosome number, be able to trace the chromosomes step by step through mitosis or meiosis.

Lab 11 – Mendelian Genetics

Key terms:

alleles	monohybrid cross
genotype	dihybrid cross
phenotype	Law of Independent Assortment
trait	phenotypic ratio
gene	autosomes
homozygous	sex chromosome
heterozygous	sex-linked gene
hybrid	codominance
Law of Segregation	

Be able to:

- Solve genetics problems involving
 - complete dominance (Punnett squares for both monohybrid and dihybrid crosses)
 - sex-linked traits (e.g. color blindness)
 - codominance (e.g. blood typing)
- Understand the relationship between genotype and phenotype.
- Understand the Law of Segregation and Law of Independent Assortment.