IB Biology

Topic 10 – Genetics HL

A3 Revision Sheet



Meiosis Homologous chromosomes are							Annotate the diagram to explain how crossing over increase variation?		
Dihybrid Inheritance Gene locus (pl. loci) is Unlinked genes segregate independently because they are found on different Discrete variation in a phenotype can be identified because there are few Continuous variation is when the phenotype varies or there are many Polygenic characteristics have phenotypes which show continuous Human height is an example of a			If one	AB Ab aB ab parent is ho	AB AABB mozygous AB AABB	Ab AABb	aB ow is enoug	AaBb x AaBb ab ab gh. AaBb x AABB ab	In a cross between a brown rabbit with long fur and a white rabbit with short fur there were 4 phenotypes of offspring
Linkage notation Morgan did some crosses with Drosophila flies. He crossed ebony body, scarlet eyed flies (eess) with wild type (genotype EESS) Because both the alleles are on chromosome 3 he used "linkage notation" Complete a punnet square using this notation. Legend E = allele for wildtype body e = allele for ebony body S = wild type allele - red eyes s = allele for scarlet eyes Recombinant phenotypes would be and				Explain why recombinant phenotypes would be lower in number than normal medelian ratios with linked genes.			l medelian ratios e will always be	Chi-squared test can be used to see if there is a significant difference between observed and expected values. Explain why you have to look up a probability once X² has been calculated?	
Gene pools A "gene pool" is ———————————————————————————————————								Explain how reproductive isolation leads to speciation?	

