3.3 Meiosis

Stages of Meiosis
Define meiosis
Complete the following diagram to show meiosis in a cell containing FOUR chromosomes
Identify the main differences between meiosis I and meiosis II
Meiosis I:
Meiosis II:
Differentiate between homologous chromosomes and sister chromatids

	Meiosis	Mitosis	
Type of cell produced			
Number of cells produced			
Number of divisions			
Ploidy of daughter cells			
Genetics of daughter cells			
Genetic Variation			
Outline how crossing over and independent assortment give rise to infinite genetic variety			
Crossing Over:			
Independent Assortment:			
Explain how random gamete fusion promotes variation within a species			

Non-Disjunction

Explain, with the aid of the diagrams, how non-disjunction can give rise to aneuploidy

