Meiosis

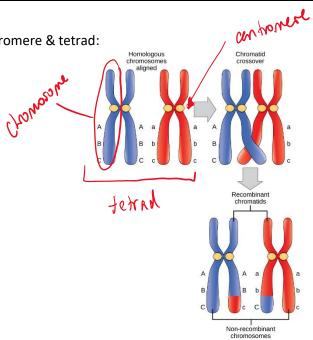
- Name: \_\_\_\_\_\_
- 1. **Definitions:** Please write definitions for the following words use your notes and write those definitions in your own words

Term	Definition		
Gamete	Contains one set of genes on one set of chromosomes, egg and sperm		
Homologous	2 sets of chromosomes (one from the male parent, one from the female parent)		
Chromosome	Contains genes		
Diploid	2N – contains both sets of genes (from males and female parent)		
Haploid	N – contains half of the genes (gametes)		
Chromatid	Half of a chromosome		
Tetrad	A set of homologous chromosomes		

2. Meiosis phases: document what happens in each phase in the table below

Meiosis I		Meiosis II	
Interphase	DNA replication		
Prophase I	Chromosomes pair up (form tetrads) Centrioles and spindle fibers from	Prophase II	Half of the number of chromosomes
Metaphase I	The pairs line up a the centre of the cell Spindle fibers attach at centromeres	Metaphase II	Individual chromosomes line up at the equator Spindle fibers attach at centromeres
Anaphase I	Homologous chromosomes pulled about	Anaphase II	Sister chromatids – move to poles
Telophase I	Nuclear membrane reforms	Telophase II	Nuclear membrane reforms
Cytokinesis	2 separate cells Half of the homologous chromosomes Haploid	Cytokinesis	Cell membranes separate into 4 cells, all haploid

3. Label the following diagram with sister chromatids, centromere & tetrad:



4. Label the stages of meiosis on these 2 diagrams:

