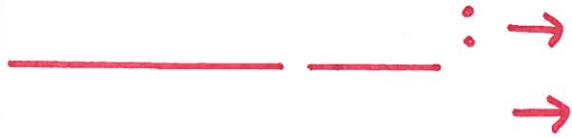




Homologous
Pairs

Before Meiosis

- 1
- 2
- 3
- 4
- 5





Introduction to Meiosis

Meiosis



Mitosis



Gametes



Haploid (n)



Meiosis

Mitosis



Diploid (2n)



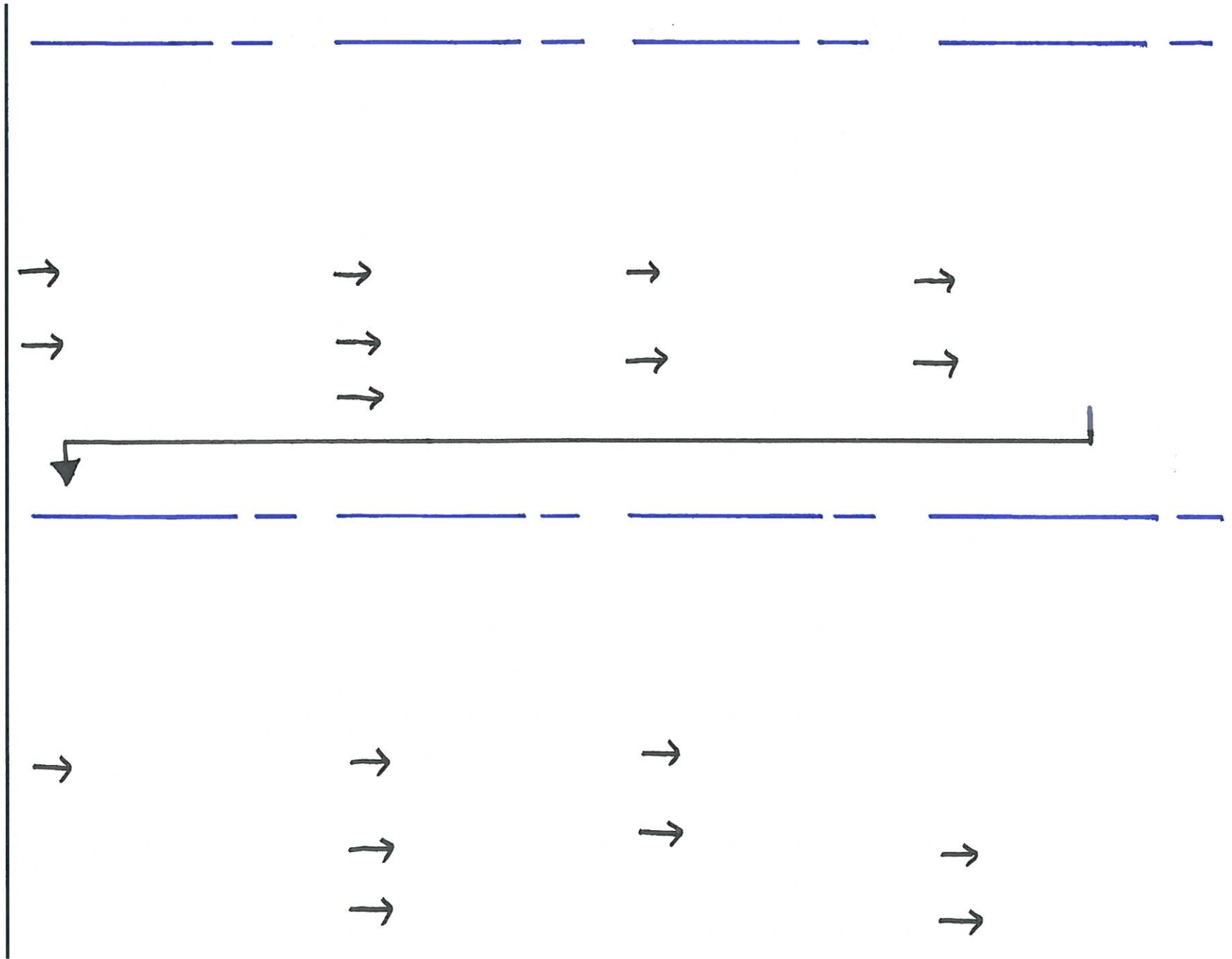
Fertilisation





Meiosis

1 2 3 4 5





Meiosis & Genetic Variation

1 2 3 4 5

Crossing Over

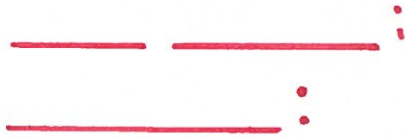
Independent Segregation





Gene Mutations

Gene Mutation



Substitution



Deletion

Mutations can cause a non-functional protein



No change to primary structure





TT

Chromosome Mutation

- 1
- 2
- 3
- 4
- 5

Chromosome
non-disjunction

