Meiosis

Science 9

How many chromosomes do we have?

4 6

How many come from mom?

23

How many come from dad?

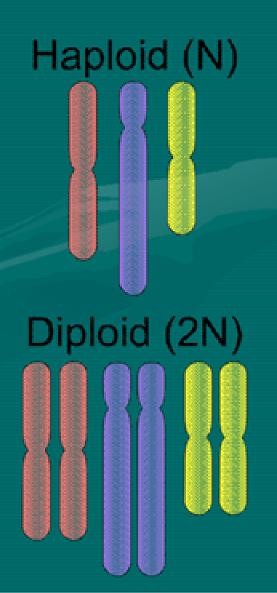
- The 46 human chromosomes can be broken down into 23 pairs
- One half of each pair comes from your mother and the other half comes from your father
- Homologous pairs:
 - A pair of chromosomes containing a maternal and paternal chromatid joined together at the centromere

Diploids

 A cell containing two complete sets of chromosomes

Haploids

 Have a single set of unpaired chromosomes



- Gametes
 - Male or female haploid cell that is able to unite with another of the opposite sex in sexual reproduction to form a diploid zygote

Meiosis

- What does mitosis do?
 - Cell growth maintaining number of chromosomes

Copy

- Meiosis:
 - The process that ensures each gamete contains only one-half set of chromosomes
 - Ensures each gamete has a different combination of the chromosomes that were present before meiosis