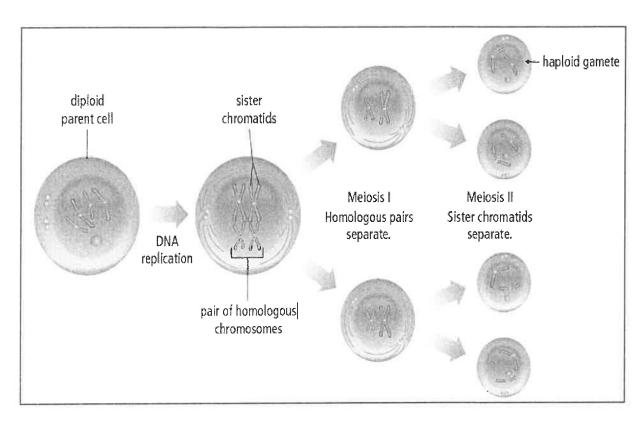
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Science 9 Notes on Meiosis

Meiosis is an important aspect of
This variation offspring produces individuals that may have over one another.
Role of Gametes: Normal body cells have a chromosome number, meaning chromosomes occur in
In humans, the male and female each contribute 23 chromosomes - when takes place: 23 () + 23 () = 46 ()
haploid egg cell haploid sperm cell (n) Fertilization diploid zygote forms (2n)
The zygote goes on to develop into an, and on into a complete individual. When the time comes, the cycle repeats - humans produce (either egg or sperm) that have half () the normal number of chromosomes.
Meiosis Meiosis produces gametes with the chromosomes compared to body cells:
Meiosis I: Matching chromosome pairs (
Meiosis II: of each chromosome are pulled apart - the end result is haploid cells, each with half the number of chromosomes. These develop into Events in Meiosis:



Crossing Over

In meiosis I, chromatids of chromosome pairs can ______ each other and exchange DNA segments - this _____ genetic possibilities and produces more variation

Independent Assortment

The pairs of chromosomes in meiosis I separate ______, creating many different combinations of chromosomes in the daughter cells

Meiosis Details:

Gametes do not form equally in males and females:

In males:
all _ cells resulting from meiosis develop into _____.

In females:

__ cell gets most of the cytoplasm and becomes the ______