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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #13: Meiosis

Name: _____ Date: _____

You can access the video here → <https://youtu.be/qCLmR9-YY3o?si=jjDvD762nXQ61Rae>

- Sexual reproduction begins when sperm meets a _____ that then starts dividing.
- Somatic cells contain 46 chromosomes grouped into _____ pairs.
- Those pairs are _____ chromosome pairs because they carry versions of the same genes.
- Cells with only 23 chromosomes are _____ cells and must combine to reach 46.
- The specialized diploid starters are primary _____ (or primary spermatocytes).
- Meiosis splits one diploid cell twice to produce _____ genetically distinct cells.
- In prophase I, two key events occur: crossover and homologous _____.
- During crossover, chromatids trade matching sections of _____ at the same loci.
- In anaphase I, homologous pairs get _____ and migrate to opposite poles.
- The crease between the two new cells is called _____, followed by cytokinesis.
- After meiosis I, each haploid cell still has 23 _____ chromosomes connected at centromeres.
- Unlike the first round, there is no DNA _____ in prophase II.
- The region where sister chromatids are joined prior to separation is the _____.
- In females, unequal divisions create three small _____ that are useless in people.
- In plants, those polar bodies become the _____ that feeds the embryo seed.

Crash Course Biology (2012) #13: Meiosis - KEY

- Sexual reproduction begins when sperm meets a **fertilized egg** that then starts dividing.
- Somatic cells contain 46 chromosomes grouped into **23 pairs**.
- Those pairs are **homologous** chromosome pairs because they carry versions of the same genes.
- Cells with only 23 chromosomes are **haploid** cells and must combine to reach 46.
- The specialized diploid starters are primary **oocytes** (or primary spermatocytes).
- Meiosis **splits** one diploid cell twice to produce **four** genetically distinct cells.
- In prophase I, two key events occur: crossover and homologous **recombination**.
- During crossover, chromatids trade matching sections of **DNA** at the same loci.
- In anaphase I, homologous pairs get **pulled apart** and migrate to opposite poles.
- The crease between the two new cells is called **cleavage**, followed by cytokinesis.
- After meiosis I, each haploid cell still has 23 **double** chromosomes connected at centromeres.
- Unlike the first round, there is no **DNA replication** in prophase II.
- The region where sister chromatids are joined prior to separation is the **centromere**.
- In females, unequal divisions create three small **polar bodies** that are useless in people.
- In plants, those polar bodies become the **endosperm** that feeds the embryo seed.

15 Questions

Answer Key Included

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