

Mitosis and meiosis **Supplement**

**Define mitosis.**

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**State the roles of mitosis.**

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**What happens to the chromosomes before mitosis?**

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**What happens to the copies of chromosomes during mitosis?**

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**What is a stem cell?**

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**What is meiosis involved in producing?**

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**Describe meiosis.**

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**What happens to the daughter cells made when a stem cell divides?**

Growth, repair of damaged tissues, replacement of cells and asexual reproduction.

Nuclear division giving rise to genetically identical cells.

They separate, so each daughter cell has the same chromosome number as the parent cell.

They are replicated exactly (copied).

Gametes.

An unspecialised cell that divides by mitosis to produce daughter cells that can become specialised for specific functions.

Some stay as stem cells. Others become specialised for specific functions.

A reduction division in which the chromosome number is halved from diploid to haploid, resulting in genetically different cells.