

This is the **Foundation Combined** version — Higher Tier and Separate-only content removed.

Meiosis is the cell division producing gametes (sex cells). It generates genetic variation essential for evolution.

- Meiosis: 2 divisions → 4 haploid cells, all genetically different
- Haploid: 23 chromosomes (in humans). Fertilisation → diploid (46)

Key Terms

Meiosis	Cell division producing 4 different haploid cells for sexual reproduction
Haploid	Half the chromosome number — 23 in human gametes

■ **Exam Tip:** Meiosis: 4 cells, haploid, DIFFERENT. Mitosis: 2 cells, diploid, IDENTICAL. In an exam, if asked which division produces gametes, always say MEIOSIS.