

Meiosis Notes

→ not common, very specific purpose

Meiosis is a specialized form of cell division

- Only occurs in germ cells (testes & ovaries) ^{haploid}

Meiosis produces 4 genetically different daughter cells

Meiosis is used for making sex cells (gametes → sperm, egg)

- used in sexual reproduction (sperm & egg fuse during fertilization)

Meiosis must do 2 things:

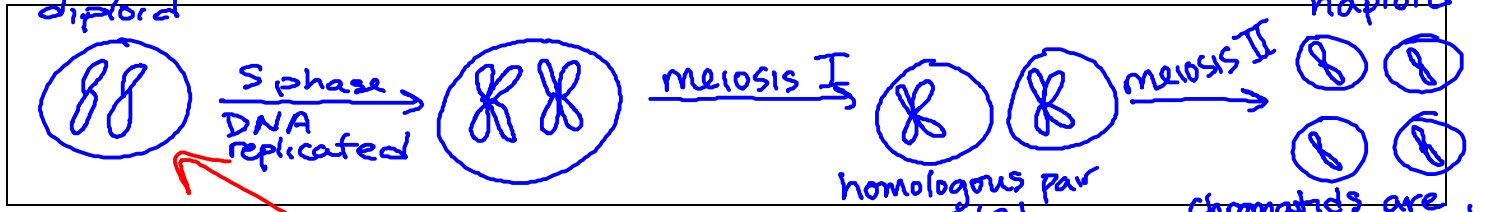
1. cut # of chromosomes in half (haploid)
2. increase genetic diversity

Goal 1: reduce chromosome number

- Meiosis undergoes 2 rounds of cell division

I. **Meiosis I:** PMAT I homologous chromosomes separated

(h.p.) II. **Meiosis II:** PMAT II sister chromatids separated



- 2nd division results in 4 genetically unique haploid cells

- Haploid cells will combine in fertilization to make diploid offspring



Goal 2: _____

- Genetic diversity _____
- Meiosis mixes up genetic information in 2 ways: _____

The final product of **meiosis** is _____

- Used as _____
- Produces _____

Stage	Name	Description	Picture
1			
2			
3			
4			
5			
6			