Why do all of us look different?

**Key Points:**

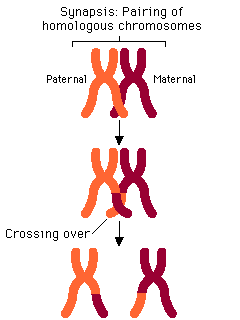
1. Meiosis is a process of cell division used to create sex cells
2. Meiosis makes four daughter cells from one parent cell
3. The cells at the end of meiosis have half the number of chromosomes as the original
4. In meiosis, the chromosomes in the new cells are genetically different

**Why meiosis?**

**Haploid vs. Diploid**

What does meiosis make?

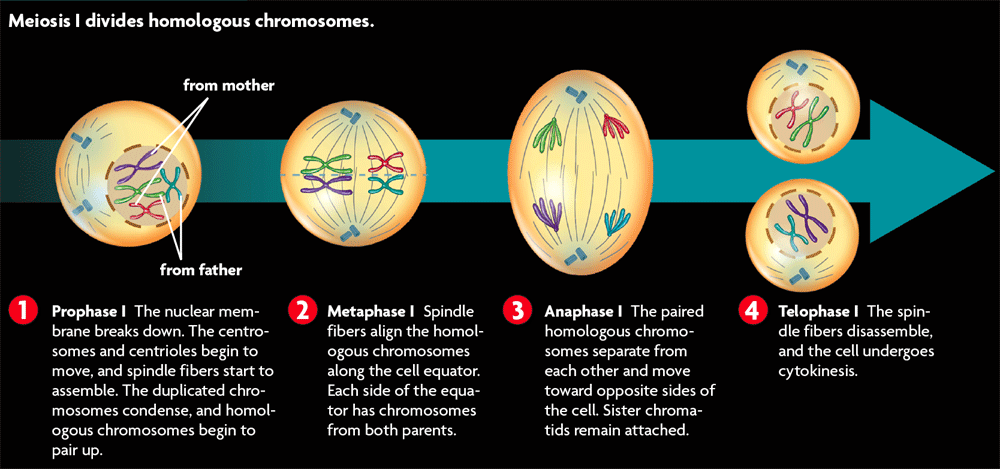
**Homologous pairs:**

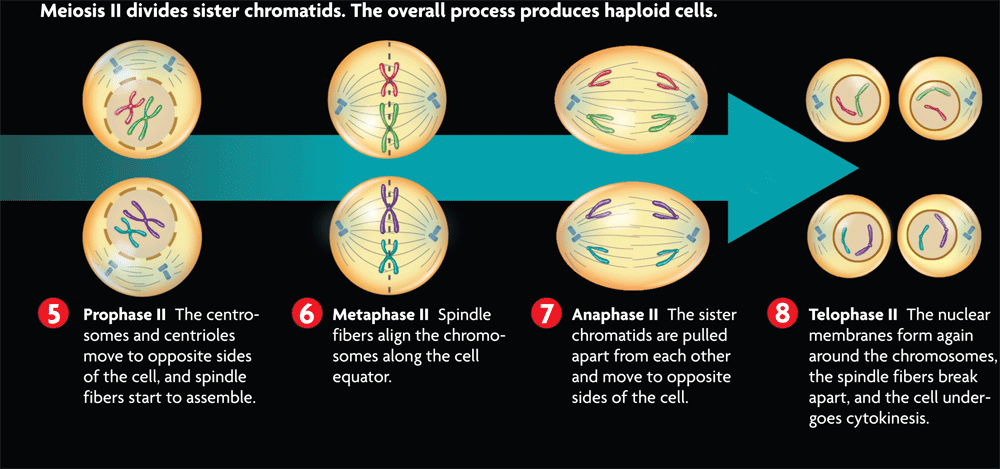
****

**Crossing over:**

Genetic variation:

**Steps of Meiosis:**





What’s a zygote?

Law of Independent Assortment:

**Crossing over and the law of independent assortment increase genetic variation in a population.**