|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Mitosis** | |  | **Meiosis** | | |  | **Fertilization** | |
| body cells | |  | haploid | | |  | gamete | |
| diploid | |  | gamete | | |  | embryo | |
|  | |  |  | | |  |  | |
|  | |  |  | | |  |  | |
| **Cell cycle** | |  | **Replication** | | |  | **Cytokinesis** | |
| daughter cells | |  | chromosome | | |  | cell cycle | |
| mitosis | |  | mitosis | | |  | divide | |
|  | |  |  | | |  |  | |
|  | |  |  | | |  |  | |
| **Chromosome** | |  | **Sister chromatids** | | |  | **Homologous chromosomes** | |
| nucleus | |  | exact copy | | |  | pair | |
| many genes | |  | chromosome | | |  | meiosis | |
|  | |  |  | | |  |  | |
| **Diploid** |  | | | **Haploid** |  | | | **Zygote** |
| mitosis |  | | | meiosis |  | | | gametes |
| double |  | | | gametes |  | | | embryo |
|  |  | | |  |  | | |  |
|  |  | | |  |  | | |  |
| **Gamete** |  | | | **Gene** |  | | | **Allele** |
| sperm |  | | | inherited |  | | | DNA |
| egg |  | | | chromosome |  | | | chromosome |
|  |  | | |  |  | | |  |
|  |  | | |  |  | | |  |
| **Centromere** |  | | | **Spindle fibers** |  | | | **Crossing over** |
| chromosome |  | | | move |  | | | recombination |
| mitosis |  | | | cell division |  | | | meiosis |
|  |  | | |  |  | | |  |