

mitosis and meiosis one sheet

The Cell Cycle	Binary Fission	Sister Chromatids	<p>The bodies of sexually reproducing organisms must carry out two different types of cellular division. The process called _____</p>
		<p>Chromatids joined by a common centromere and carrying identical genetic information (unless crossing-over has occurred).</p>	
Mitosis	Crossing Over	Mitosis in Plants	<p>is used to create new body cells (more properly called _____).</p>
		Cytokinesis	
Meiosis	Alternate Assortment		<p>These additional cells are genetically identical and are used for _____ and as replacements for damaged or destroyed cells. The other type of cellular division, called _____, is used for creating reproductive cells more properly called _____. These _____ cells are unique because they only contain half of the usual number of chromosomes normally stored in the nucleus of a _____ cell. This is a necessary adaptation to allow for the formation of a _____ from fusion of an egg and sperm cell.</p>
<p>Cell division that takes place in specialized tissues that results in the production of haploid gametes. This reduction division results in four non identical daughter cells, each containing only half the original number of chromosomes. These cells when produced in human males cells can develop into 4 sperm cells each containing 23 chromosomes. In the case of human females the process results in 1 viable egg cell and 3 polar bodies which are discarded.</p>	Spontaneous Generation		
	<p>Francesco Redi- Hypothesized that maggots developed from eggs laid by flies. Conducted one of the first examples of a controlled experiment, placing meat in flasks, some open, some sealed completely, and others covered with mesh. Maggots appeared only in the open flasks in which the flies could reach the meat and lay eggs.</p> <p>Lazzaro Spallanzani- His experiments proved that microbes come from the air, and that they could be killed through boiling.</p> <p>Louis Pasteur- He exposed boiled broth to the air in flasks with a “swan neck” that would not allow dust particles to pass and nothing grew in the broth. Thus pasteurization was born and abiogenesis was abolished as foolishness.</p>		