Science 9

Biology V

Name: Date: Block:

- 1. Meiosis
- 2. Stages of Meiosis

Review:	
In sexual reproduction, two cells called combine together to form	a
which will develop into an offspring. The male contributes one gan	nete called the
sperm cell and the female contributes one gamete called the egg cell or ovum.	
Gametes are considered cells because they contain	the
normal number of an organism has. Regular	cells are
as they have the full number of chromosomes.	
Meiosis	
Cells that produce gametes undergo a type of cell division called	
What is meiosis?	
is a process that occurs when a cell	
to produce cells. This hap	
sexual reproduction are are	from parents and
from one another (gametes from parents are not genetically the same).	
 During meiosis, the sister chromatids (the two halves of a duplicated chromosome 	•
separate as well as the (the similar but	non-identical
chromosome pairs an organism receives from its two parents)	
Before a cell begins meiosis, the cell must undergo	
The cell and all of its chromosomes	
It is preparing itself for division	
Once interphase is complete, meiosis can begin. Meiosis is split into two parts:	and
	
Stages of Majoria	
Stages of Meiosis	
Meiosis I:	
membrane begins to	80
DNA condenses into duplicated chromosomes	160
· ·	1 CB
Homologous chromosomes are two pieces of DNA which carry the	AC
same genes, one from each parental source.	
·	
• begin to form	

A process called	may occur between the homologous		
	wo homologous chromosomes pheir genetic material. This can le	=	
Ho dre	nedogous Chronisome Hecombinate Orossover Oros		
Meiosis I:	chromatids		1
 Spindle fibers guide chromosome m chromosome's 	•	to the	
• of the cell	pairs line up along the		
•end of the cell	pairs	_ and go to each	*
Meiosis I:	form		
Each nucleus contains a complete co	opy of the cell's DNA		
The cell will split in two and form		daughter cells	S
Meiosis II:			
membrane beg	gins to		800
DNA exists as chromosomes	begin to		
Meiosis II:			
Chromosomes line up along the	of the cell		

Meios	sis II:		
•		and go to each end of the cell	
	• This time, it is the _	are are and pulled towards opposite poles of the cell	
Meios	sis II:		Polymon Company
•	Nuclear membranes form	form around each set of chromosomes and the	
•		new cells roducts of meiosis would be	
		chromosomes.	
wth and			
erphase)	First cell division		
	, 50. 61.310.		

Meiosis: Division Summary

Meiosis produces four haploid cells from one diploid cell. These haploid cells are the gametes that take part in sexual reproduction.

Second cell division