

**ACTIVITY – Mitosis and Meiosis Comparison**

***Instructions:***

1. Cut out the Cell Division Cards and organize them in the correct order for both mitosis and meiosis. *HINT:* Both sets of cards (mitosis and meiosis) start with 4 chromosomes in prophase
2. When you think you have them in the correct order and phase, paste them on this page in the appropriate areas below and on the back of this paper. Use your lecture notes and textbook for help.
3. **LABEL:** the nucleus, chromosomes, chromatids, centrioles, and spindle fibers on **EVERY** card where they can be seen (you will not see all of them on each card.)

<b>Mitosis</b>		<b>Meiosis</b>	
Phase	Card	Phase	Card
Prophase		Prophase I	
Metaphase		Metaphase I	
Anaphase		Anaphase I	
Telophase		Telophase I	
		Prophase II	

		Metaphase II	
		Anaphase II	
		Telophase II	

## Mitosis and Meiosis Comparison

	<b>MITOSIS</b>	<b>MEIOSIS</b>
Does the cell have interphase— (does it copy all its DNA)—before each process occurs?		
Summarize the overall purpose or goal of each process.		
How many stages to each process are there? List/name each stage.		
Does each process change the number of chromosomes per cell?		
How many daughter cells does each process make?		
How similar are the daughter cells each process makes?		
If a human cell with a chromosome number of 46 undergoes each process, what number of chromosomes will be in each daughter cell?		

# Cell Division Cards

