**Activity: Simulating Meiosis** 

Stages in Meiosis	Teacher Approval	Stages in Meiosis	Teacher Approval	
Interphase		Interkinesis		
Prophase I		Prophase II		
Metaphase I		Metaphase II		
Anaphase I		Anaphase II		
Telophase I		Telophase II		

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- 1. What is the difference between Meiosis I and Meiosis II?
- 2. List and explain one similarity and difference between meiosis and mitosis. Be sure to explain in detail.
- 3. A cell has 16 chromosomes before it undergoes meiosis. Fill in the chart with the number of chromosomes and chromatids that are present in one cell during each of the phases listed.

Phase	# of chromosomes	# of chromatids	Phase	# of chromosomes	# of chromatids
Prophase I			Metaphase II		
Telophase II			Anaphase I		
Interkinesis			Gametes		

4. To summarize this activity, draw three pairs of homologous chromosomes in the first circle below. Label the homologous pairs A, B, and C. Fill in the following circles with the appropriate number of chromosomes. Label each circle as being

haploid or diploid in addition to the chromosome count.

