

Meiosis In-Class Handout

Name: _____

Complete the table as you progress through today's activity:

	n	ploidy	# of chromosomes per cell	# of DNA molecules per cell	# of chromatids per cell
G1 phase					
after S phase					
after meiosis I					
after meiosis II					

1. Draw what your cell looks like at the beginning of G1:

2. Draw what your cell looks like after DNA synthesis occurred:

3. Draw what your cell looks like in late prophase II:

4. Draw what your cell looks like after crossing over occurred:

5. Draw what your cell looks like just before metaphase I:

6. Draw what your cell looks like after meiosis I is complete:

7. Draw what your cell looks like just before metaphase II:

8. Draw what your cell looks like after meiosis II is complete:

9. How will your gametes become diploid cells again?

10. Discuss how meiosis has led to genetic diversity in the population of this class.