## **Meiosis Models and Slides**

## **Biology**

For this assignment, you will work with a partner to continue the work you started with your mitosis slides. Your goal is to show several chromosomes during a few key stages of meiosis, along with explaining what is happening during each stage. Work in Google Slides and turn your work in through Showbie when you have completed all the slides.

## For this assignment, you will need:

- 1. Paper (or other material) models of two copies of four different chromosomes. Your chromosomes should be replicated (since meiosis happens after DNA replication has occurred), detachable (since you'll be showing how they separate during meiosis) and easily distinguishable.
- 2. You will need to be able to identify clearly the different chromosomes that make up each chromosome pair. Since in humans (and many other animals) get one copy of each chromosome from their mother and the other copy from their father, you can label the different copies of your chromosomes as "M" (maternal) and "P" (paternal).
- 3. Your presentation should have the following 6 slides:
  - a. A title slide showing each of your names
  - b. A slide showing all eight of your chromosomes during prophase 1 (of meiosis 1) along with a written description of what is being shown.
  - c. A slide showing all eight of your chromosomes during metaphase 1 (of meiosis 1) along with a written description of what is being shown.
  - d. A slide showing all eight of your chromosomes after the completion of telophase 1 (of meiosis 1) along with a written description of what is being shown.
  - e. A slide showing all eight of your chromosomes during metaphase 2 (of meiosis 2) along with a written description of what is being shown.
  - f. A slide showing all eight of your chromosomes after the completion of telophase 2 (of meiosis 2) along with a written description of what is being shown.

Evaluate your work using the checklist below (this is how your presentation will be graded). When you are done, turn your presentation in through Showbie.

Criteria	Prophase 1 shown correctly	Correct information for prophase	Metaphase 1 shown correctly	Correct information for metaphase 1	Telophase 1 shown correctly	Correct information for telophase	Metaphase 2 shown correctly	Correct information for metaphase 2	Telophase 2 shown correctly	Correct information for telophase
		1		metaphase 1		1		metaphase z		2
Points	1	1	1	1	1	1	1	1	1	1