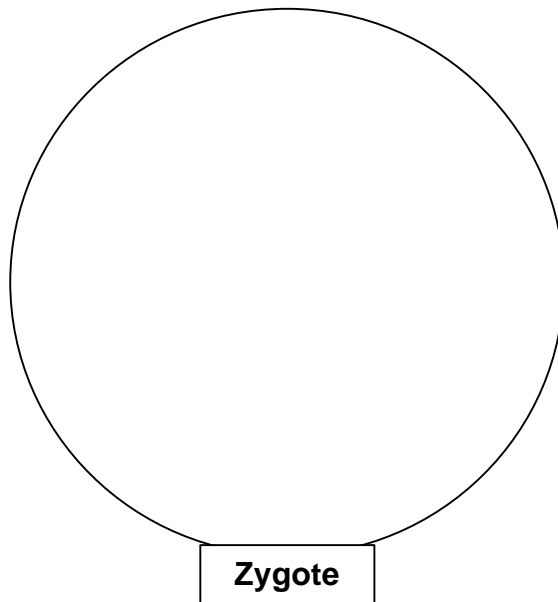


Meiosis Worksheet General Science Section 17

Procedures:

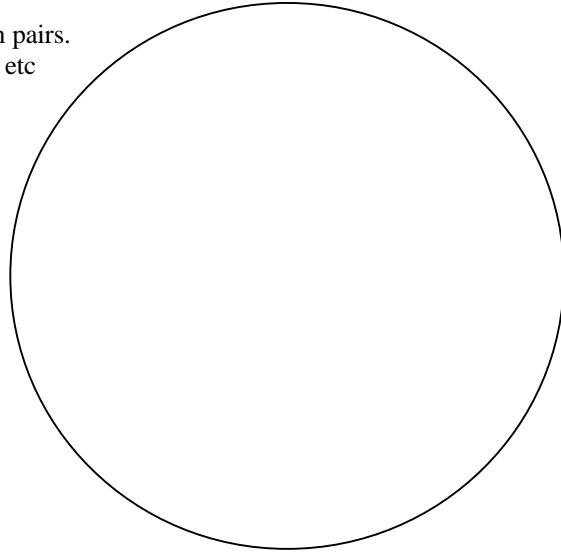
1. Cut out and Keep separate the chromosomes from the egg cell and the sperm cell pages.
2. Show one way the chromosomes could line up in the Pre-Egg and Pre-Sperm cells.
3. How many different ways could the chromosomes line up?
4. Move the chromosomes to the Egg and Sperm cells to show what would happen after meiosis.
5. How many different Egg or Sperm cells could you make?
6. Take the chromosomes from one of your Egg cells and one of your sperm cells and combine them in the zygote at the bottom of this page.
7. Is this the only zygote that you could have made?
8. How many different zygotes could have been made?
9. Why don't children of the same parents look exactly alike?



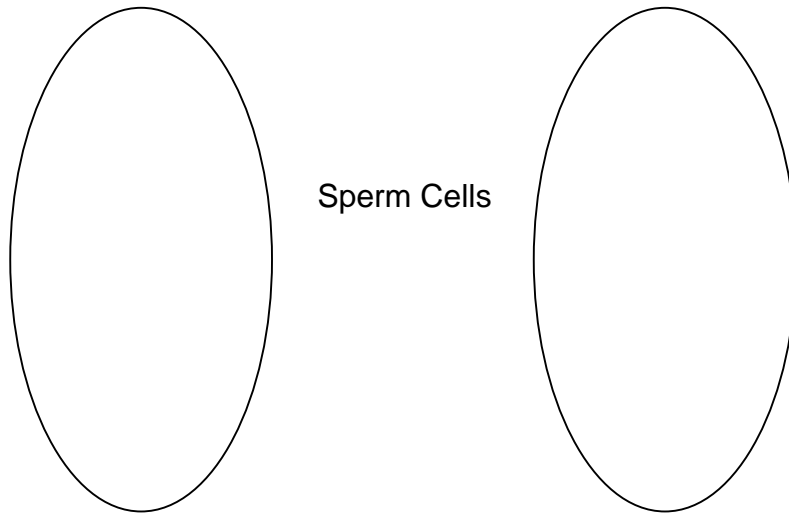
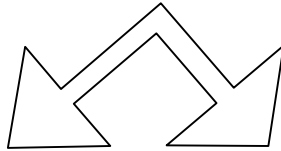
10. Email the answers to questions 3,5,7,8,9 to your instructor. jwpluemer@swtc.edu Make sure to include your name, the name of the assignment, the questions, and your answers.

Pre-Sperm Cell

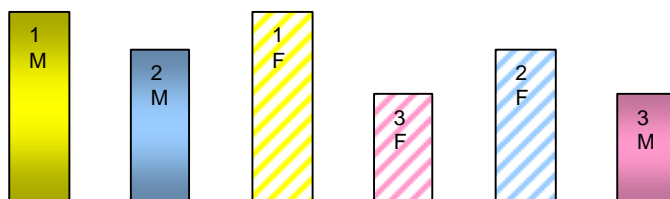
Line up the 6 chromosomes in pairs.
Remember 1 with 1, 2 with 2, etc



When the cell above divides to form
The sperm cells below, where will the
chromosomes go?
Egg & Sperm cells have 1/2 the chromosomes
of the original cell and one of each type

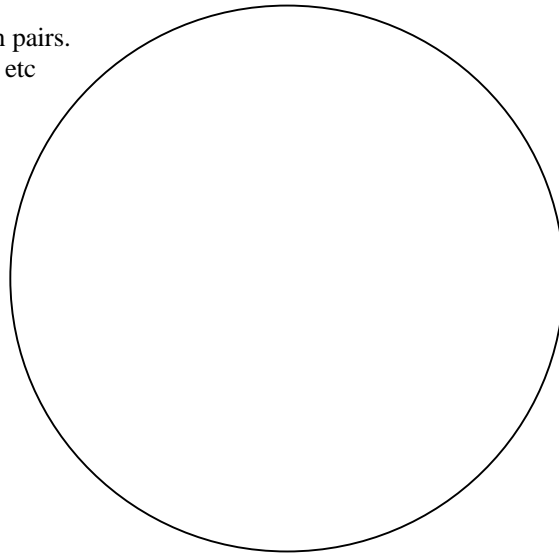


6 Original Chromosomes

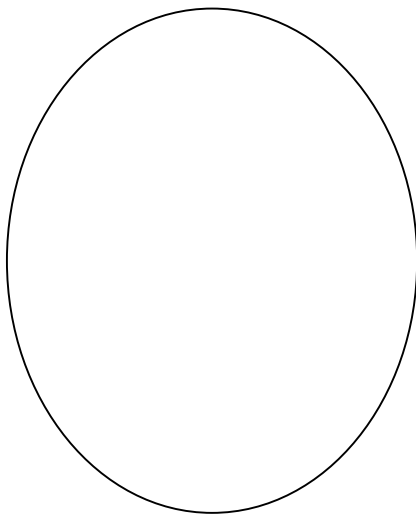
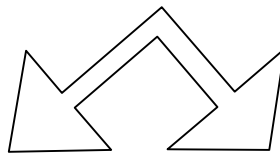


Pre-Egg Cell

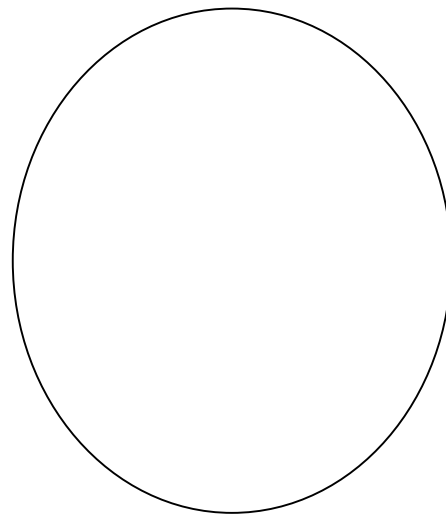
Line up the 6 chromosomes in pairs.
Remember 1 with 1, 2 with 2, etc



When the cell above divides to form
The egg cells below, where will the
chromosomes go?
Egg & Sperm cells have 1/2 the chromosomes
of the original cell and one of each type



Egg Cells



6 Original Chromosomes

