Meiosis and Fertilization Computer Lab!!!!!

[](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwiLj-i7pu7fAhWyc98KHdBeDBkQjRx6BAgBEAU&url=https://concord.org/our-work/research-projects/geniverse/&psig=AOvVaw1auoP1p9GEW-3avpZXx6Dn&ust=1547590611582572)

1st Activity: Write down the chosen female and male traits. One allele for each **chromatid**.

Mother Father

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/B1-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/A1-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/B2-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/A1-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/B1-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/A2-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/AX-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/B2-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/A2-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/AX-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/BY-chromosome.png

http://meiosis.geniverse.concord.org/static/geniverse/en/25570fdd6b937003a98ff2b1f30dba7288f58029/resources/images/BX-chromosome.png

2nd Activity. Choose one parent from the parent pool. Then hover over the chromatids. Draw and write thee traits you see before and after \_\_\_\_\_\_\_\_\_\_\_\_\_\_ has taken place. Can you guess what the blank is?

Parent chosen:

Before After

Challenge 1: Match the chromosomes from father and mother to create the two offsprings as seen on lab.

When an egg and sperm meet, they produce \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This is done doing what process? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What traits do the mother carry? Hover over chromatids.

What traits do the father carry? Hover over chromatids.

Challenge 2: Pick the mommy.

Explain how you picked the mommy. Talk about traits and process of elimination or draw a Punnett square.

Challenge 3: Mix & Match

What were you able to do when you pressed swap?

This is known as what\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. When you did it correctly it told you the word.

Note what you **crossed over** with each parent and the end results for the offsprings.