

# Fake Child Project

In this project, you will be creating a fake child with your partner. You will be analyzing your traits and that of your partner and combining them in a logical manner to create one possible offspring. Expectations are listed below.

## **Part I: Analyze**

In this part, you will be analyzing your traits and those of your partner. You have a list of human traits that are dominant and recessive in your compositional book that you will need to use for this project. Pick seven traits from the shoulders up (face, head, hair, etc.) to analyze. For these seven traits, to the best of your ability (thinking about your real parents) decide if you are homozygous or heterozygous for that trait. Make sure to copy down both you AND your partner's traits. It is important that you have all the information in both your comp books.

## **Part II: Probabilities**

Once you have decided traits for both you and your partner, create a Punnett Square for each of the seven traits you have chosen. Once you have created Punnett Squares for each of the seven traits, you need to analyze for probability. List all probabilities of possible phenotypes. Then pick the phenotype with the highest probability for your offspring. These will be the traits of your child. Your paper should now have a list of seven traits that your child will have.

## **Part III: Picture**

You currently have a list of traits for your fake child. Now you need to "produce" the kid. To do this, draw what the kid would look like. Make sure to include the seven traits and make it as believable as possible. Your kid should look like an actual kid and not a stick figure and you can pick the gender to be whatever you wish. Since you picked traits from the shoulders up, you only need to draw your child from the shoulders up. However, if you choose to draw the whole child, make sure the face clear enough to see since that is what I will be looking for to grade. Your picture should also be colored and colored correctly. What I mean by correctly is that if both you and your partner have red hair, you shouldn't color your child's hair blonde.