

Making Babies

You work in the nursery at MHCA Hospital. There are quite a number of babies slated to be born. These babies have some rather unusual parents however. Your job is to determine what you can about one of the impending children and create a genetic work up for the parents.

Here is the list of traits evidenced by the parents:

- • Face shape – Triangular (T), square (t) or possibly a mutation – rectangle.
- • Face color – Green (G), blue (g) or possibly a mutation – orange.
- • Hair texture – Curly (C) or straight (c) or possibly a mutation – both.
- • Hair thickness – Lots of hair (H) or very little (h) or possibly a mutation – bald.
- • Freckles – Freckles (F) or no freckles (f) or possibly a mutation – only on half the face.
- • Eyebrows – Arched (A) or upside down V (a) or possibly a mutation – unibrow.
- • Eye color – Yellow (E) or red (e) or possibly a mutation – purple.
- • Lips – Cupid's bow (L) or straight (l) or possibly a mutation – heart shaped
- • Nose – Triangular (N) or round (n) or possibly a mutation – square.
- • Ears – Square (R) or oval (r) or possibly a mutation - flower
- • Sex – Male (XY) or female (XX)

Procedure:

1. Obtain the father's genotypes and last name from the Male receptacle.
2. Obtain the mother's genotypes and last name from the Female receptacle.
3. Attach them to the top of the Punnett Square paper.
4. Fill in the Punnett Squares for each trait. Your child's genotype is the genotype in the portion of the square that has a circle.
5. Go the Mutation receptacle and choose a slip. Attach it to the top of the paper.
6. Now start to fill in your child's birth certificate.
7. Gather up the materials you need to produce your assigned baby.
8. While constructing the baby you need to think up an appropriate name because the parents have given you the honor of naming their child.
9. Get a blanket to wrap your baby up and place it in the nursery.
10. Pass in the Punnett Sq. paper and the Birth Certificate.