

Create a pedigree for this family tracing their cleft chins using the following clues:

Individual III 2 has three siblings: 1 brother with a cleft chin and 2 sisters who do not.

Individual III 2 has one uncle with the cleft chin and one aunt without.

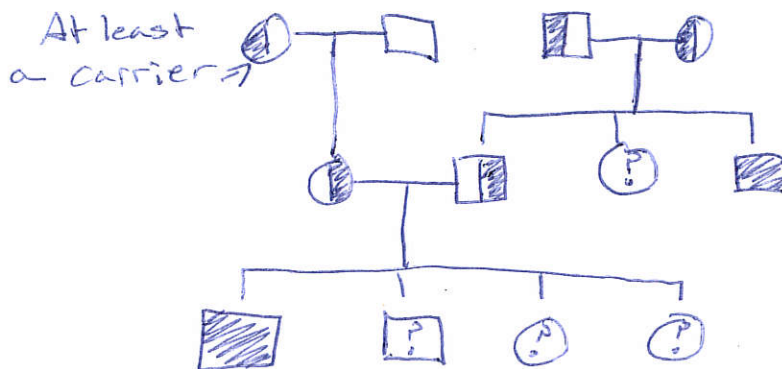
Neither III 2s mother nor father have cleft chins.

Individual III 2 is a man.

Individual III 2s mother married into the family.

Individual III 2s maternal grandfather (his mother's father) does not have the cleft chin nor carry the trait.

Individual III 2s paternal grandparents (fathers parents) do not have the chin.



1 What individuals do we not have enough information to assign genotypes?

III 2, his aunt and his 2 sisters.

Station 2: Vocabulary and understanding

For this station, split a deck of flashcards and alternate turns quizzing your partner. When you come to a word that you struggle with, forgot, or don't know at all, add this word somewhere on your notebook vocab sheet.

Stations 3: DNA, RNA and their function

Working with your partner you will work through **step 5** in the virtual cell reproduction lab.

Go to mrpowellscience.com > Science Resources > Genetics > [DNA Structure Virtual Lab](#)

OR

Go to

http://glencoe.mheducation.com/sites/0078778066/student_view0/chapter4/virtual_lab.html

Click on

[What is the role of DNA and RNA in protein synthesis](#)

Read through the information in the lab under the What is the role of DNA and RNA in protein synthesis heading on the left. Once you have completed the reading and steps 1 -5 answer the nine questions that follow.