##### CASE ANALYSIS SHEET

1. Open the Case: Depending on how your instructor provides the case, watch the ASL video and/or read the case.
2. Recognize unfamiliar terms
   1. Individually, re-read the case or view the video again. As you are doing so, circle terms or make notes of terms that are unfamiliar, or for which you need a definition.

3. Recognize major issues in the case

Then, review the case again and list 3-4 topics or issues that answer the question **“What is this case about?”**

Fraternal twins

Genetic variability

How twins happen

Alleles

Meiosis

Being a twin and being very different

Understanding who I am

Sibling conflict

Fighting with brothers and sisters

4. A. Connecting to what you know already By yourself, list one thing that you already know that is related to this case in the ”What Do I Know?” column.

Then, list one question you would like to learn more about in the “What Do I Need to Know?” column.

4.B. Sharing with the Group: Now share your ideas with your small group. Have one person keep notes of the discussion.

|  |  |
| --- | --- |
| What Do I Know? | What Do I Need to Know? |
| Sibling conflict  Genetics is a crapshoot  There is a strong genetic component to tongue rolling  How fraternal and identical twins form  Can be one egg or two eggs  Occurrence of twins can be heritable | Is tongue rolling dominant or recessive  Where in process of cell division do twins happen  Nature vs nurture  When and how did these differences in reproduction occur  Do twins have more sibling conflict than other sibling pairs  Do identical twins have the same fingerprints?  Is tongue rolling polygenic or multifactorial |

5. With your group members, review the questions you posed. Then choose 1-3 questions or issues in the “What do I need to know?” list that you agree are **most important** to explore. You might decide to combine some questions to write a new question.

Do the same selection process for 1-3 items that people in your group **already knew**.

Put checkmarks by these most important items. If you are writing new questions, put them here:

6. Identify potential resources: What kinds of references or resources will help you answer or explore these questions?

Identify three different resources and list them below, then

explain what information each resource is likely to give that will help you answer the question(s).

Choose specific resources or types of resources. Consider resources that are not online.

Interview a geneticist

Interview twins

Ask the table with the four biologists some questions

Ted Ed resources

Research library – embryo development

Do your own research on our research questions ☺

Textbook

Online mendelian genetics (OMIM)

University of Utah center for genetics