

Karyotyping Webquest

1. Go to: http://www.biology.arizona.edu/human_bio/activities/karyotyping/karyotyping.html

Read the introduction and answer the following questions (**in your graphic organizer**) before you begin the activity.

- a. How many pairs of chromosomes do humans have?
- b. How are karyotypes made?
- c. What do the bands really represent?
- d. How do scientists analyze the karyotype?

2. **Click on “PATIENT HISTORIES” (at bottom of page)**

- a. Read the information for PATIENT A and click on **“Complete Patient’s A Karyotype”**
- b. Read the directions and match the chromosome on the left of the directions to the chromosome in the karyotype below. Continue matching until all given chromosomes are matched up.
- c. After you have completed matching up the karyotypes for patient A, scroll down to the bottom of the page and look at the karyotype for Patient A.
- d. Complete the PATIENT A box **in your graphic organizer** except for the *description of the syndrome*.
- e. HINT: To diagnosis, scroll back up to the diagnosis box.

3. **Click on “PATIENT B” (at bottom of page)**

- a. Repeat the above steps for PATIENT B (as you did for Patient A).

4. **Click on “PATIENT C” (at bottom of page)**

- a. Repeat the above steps for PATIENT C (as you did for Patient A).

(Once all done, you will no longer need this website)

5. **Complete DESCRIPTION of SYNDROME**

- b. Once you have completed the top portion of each Patient’s box (in your graphic organizer), using the internet, you will research each syndrome.
- c. For each description, be sure to include the following: signs/symptoms, health effects, management/treatment, chances of syndrome occurring.
- d. ** Do not use Wikipedia – You must use credible sources!! **