

Name: _____ Date: _____

Student Exploration: Human Karyotyping

Vocabulary: autosome, chromosomal disorder, chromosome, karyotype, sex chromosome

Prior Knowledge Question (Do this BEFORE using the Gizmo.)

A **chromosome** is a rod-shaped structure made of coils of DNA. Most human cells have 23 pairs of chromosomes.

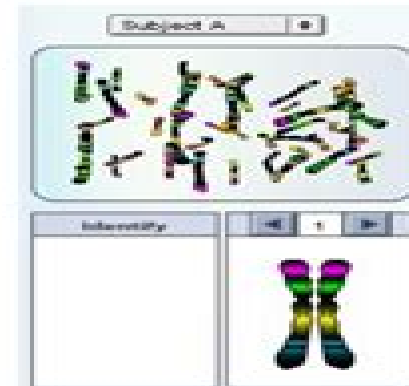
- Why do you think humans have two sets of 23 chromosomes? (Hint: Where did each set come from?) We have 2 sets because we get 1 set from each parent
- How do you think different people's chromosomes would compare? I would think that they would be really different

Gizmo Warm-up

Scientists use **karyotypes** to study the chromosomes in a cell. A karyotype is a picture showing a cell's chromosomes grouped together in pairs.

In the Human Karyotyping Gizmo™, you will make karyotypes for five individuals. Take a look at the SIMULATION pane. Use the arrows to click through the numbered list of chromosomes at the bottom right of the pane.

- How does the appearance of the chromosomes change as you move through the list? They become a lot smaller than they were in the previous one
- Examine the chromosomes labeled **x** and **y**. How do these two chromosomes compare? X is really big, and Y is really small. There is also just one instead of it being a pair



Karyotyping Exploration Lab Answers

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