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.

1. 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_

2. How do you think different people's chromosomes would compare? I would think that

they would be really different

Gizmo Warm-up

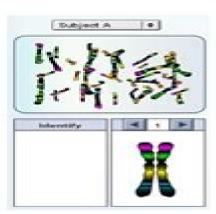
Scientists use **karyotypes** to study the chromosomes in a cell. A karyotype is a picture showing a cell's chromosomes grouped together in pairs.

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



2. 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

Michael Seilmaier

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