

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.

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

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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.

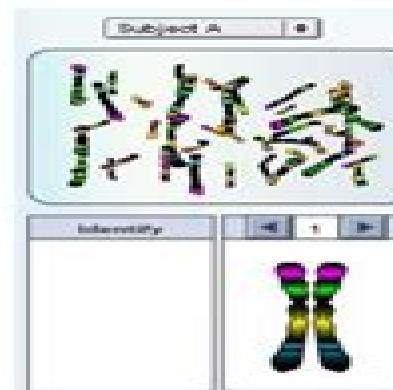
In the Human Karyotyping Gizmo™, you will make karyotypes for five individuals. Take a look at the SIMULATION pane. Use the arrows to click through the numbered list of chromosomes at the bottom right of the pane.

1. 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

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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

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# Answer Key For Student Exploration Human Karyotyping

**K Morrison**

**Answer Key For Student Exploration Human Karyotyping:**

**The Search for Solutions Teaching Guide (abridged)** Illinois State Board of Education (1973- ),1980      ENC Focus  
Review ,2003

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