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## Student Exploration: Human Karyotyping

**Vocabulary:** autosome, chromosomal disorder, chromosome, genome, 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.

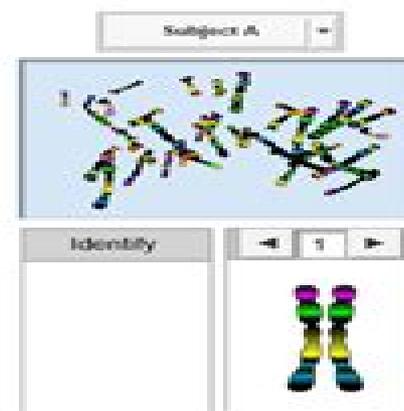
1. Why do you think humans have two sets of 23 chromosomes? (Hint: Where did each set come from?) Because we get 1 from each parent.
2. How do you think different people's chromosomes would compare?  
They would be very different, since genes are very distinct.

### 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? The size and shape, along with "colour" change as I go through them.
2. Examine the chromosomes labeled **x** and **y**. How do these two chromosomes compare?  
Chromosome X is bigger than chromosome Y.



# Explore Learning Student Exploration Human Karyotyping Answers

**ML Morrison**



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