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## Student Exploration: Human Karyotyping

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?)

2 sets of 23 chromosomes which we got from our parents.

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

I think that depending on the person, they could be different in terms of looks, shape, etc. some might be similar, but each person's is unique in its own way.

### 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.

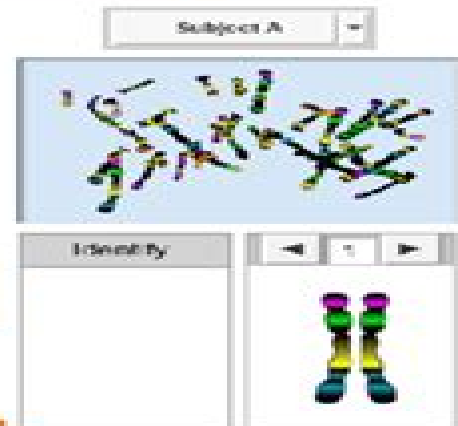
In the *Human Karyotyping* Gizmo, you will make karyotypes for five individuals. Take a look at the **SIMULATION** pane. Use the arrows to click through the numbered list of chromosomes at the bottom right of the pane.

1. How does the appearance of the chromosomes change as you move through the list?

The shape of the chromosome changes, as well as the size of the chromosome.

2. Examine the chromosomes labeled **x** and **y**. How do these two chromosomes compare?

These are different from one another because one is bigger than the other.



# Human Karyotyping Gizmo Answers

**RS Peters**



## **Human Karyotyping Gizmo Answers:**

## Enjoying the Track of Expression: An Emotional Symphony within **Human Karyotyping Gizmo Answers**

In a global used by monitors and the ceaseless chatter of instant interaction, the melodic elegance and emotional symphony developed by the prepared term often fade in to the backdrop, eclipsed by the relentless sound and disturbances that permeate our lives. But, situated within the pages of **Human Karyotyping Gizmo Answers** a marvelous fictional treasure overflowing with raw emotions, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this charming masterpiece conducts readers on a psychological journey, well unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths with this touching examination, we can explore the book is central harmonies, analyze its enthralling publishing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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