

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.

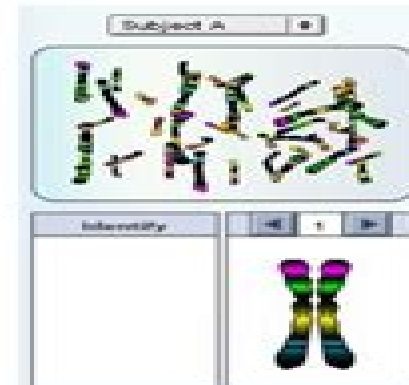
- Why do you think humans have two sets of 23 chromosomes? (Hint: Where did each set come from?) We have 2 sets because we get 1 set from each parent
- How do you think different people's chromosomes would compare? I would think that they would be really different

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



Answer Key To Student Exploration Human Karyotyping

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Answer Key To Student Exploration Human Karyotyping:

Answer Key To Student Exploration Human Karyotyping Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Answer Key To Student Exploration Human Karyotyping**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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