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Date: 05/24/2021

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.

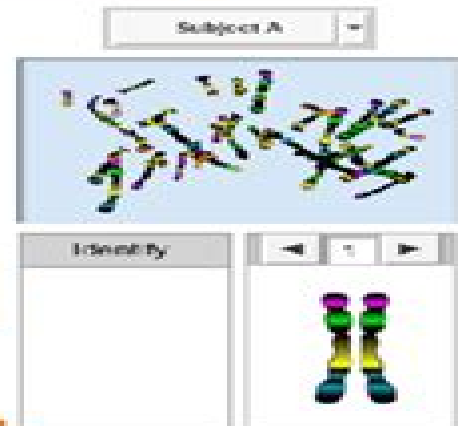
In the *Human Karyotyping* Gizmo, you will make karyotypes for five individuals. Take a look at the **SIMULATION** pane. Use the arrows to click through the numbered list of chromosomes at the bottom right of the pane.

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

B Lingard

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name B Lingard.

Human Karyotyping Gizmo Answers:

The book delves into Human Karyotyping Gizmo Answers. Human Karyotyping Gizmo Answers is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Human Karyotyping Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Human Karyotyping Gizmo Answers
 - Chapter 2: Essential Elements of Human Karyotyping Gizmo Answers
 - Chapter 3: Human Karyotyping Gizmo Answers in Everyday Life
 - Chapter 4: Human Karyotyping Gizmo Answers in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Human Karyotyping Gizmo Answers. This chapter will explore what Human Karyotyping Gizmo Answers is, why Human Karyotyping Gizmo Answers is vital, and how to effectively learn about Human Karyotyping Gizmo Answers.
 3. In chapter 2, this book will delve into the foundational concepts of Human Karyotyping Gizmo Answers. This chapter will elucidate the essential principles that need to be understood to grasp Human Karyotyping Gizmo Answers in its entirety.
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 5. In chapter 4, the author will scrutinize the relevance of Human Karyotyping Gizmo Answers in specific contexts. This chapter will explore how Human Karyotyping Gizmo Answers is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Human Karyotyping Gizmo Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Human Karyotyping Gizmo Answers.

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Human Karyotyping Gizmo Answers Introduction

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