

**Student Exploration: Human Karyotyping**

**Background Information**

**Key Knowledge:** Specimens for the Karyotyping Gizmo are **chromosomes**. Each chromosome contains many genes. Some humans have 23 pairs of chromosomes.

1. Why do you think humans have two sets of 23 chromosomes? (Use **What's the Question?** to help you.)

**What do you think about the chromosomes and how they are organized?**

2. Why do you think chromosomes are organized in pairs? (Use **What's the Question?** to help you.)

**Gizmo Description**

Chromosomes are **long strands** of DNA that contain genes. It is well known that **humans** have 23 pairs of chromosomes. In the Human Karyotyping Gizmo™, you will make karyotypes for the individual. Take a look at the human karyotype page. Use the gizmo to look at the chromosomes of chromosomes of the individual of the page.

3. What does the appearance of the chromosomes change as you move through the Gizmo? (Use **What do you think about the chromosomes and how they are organized?** to help you.)

4. What are the chromosomes labeled & why? (Use **What do you think about the chromosomes and how they are organized?** to help you.)

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# Student Exploration Human Karyotyping Answer Key

## [Student Exploration Human Karyotyping Answer](#)

### **Student Exploration Human Karyotyping Answer**

This student exploration human karyotyping gizmo answer key helps us understand that true strength does not originate from will. The strength which enables us become successful emanates from...

### **Student Exploration Human Karyotyping Gizmo Answer Key**

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?)

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

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### **Human Karyotyping Gizmo : Lesson Info : ExploreLearning**

Human Karyotyping Gizmo : ExploreLearning Sort and pair the images of human chromosomes obtained in a scan. Find differences in the scans of the various patients to find out specific things that can cause disease, as well as the gender of the person. Sort and pair the images of human chromosomes obtained in a scan.

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Student Exploration Human Karyotyping Gizmo Answer Key.pdf ... -all of the chromosomes in a human cell contain around 6 million nucleotides and 30,000 genes - chromosomes exist in duplicated or unduplicated forms.

### **Student Exploration Human Karyotyping Answer Sheet**

Gizmo Student Exploration Human Karyotyping Answers 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.

### **Karyotyping Gizmo Answers - modapktown.com**

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