

**INVESTIGATION****How Can Karyotype Analysis Detect Genetic Disorders?**

**A** karyotype is a picture in which the chromosomes of a cell have been stained so that the banding pattern of the chromosomes is visible. Cells in metaphase of cell division are stained to show distinct parts of the chromosomes. The cells are then photographed through the microscope, and the photograph is enlarged. The chromosomes are cut from the photograph and arranged in pairs according to size, arm length, centromere position, and banding patterns. Karyotypes have become increasingly important to genetic counselors as disorders and diseases have been traced to specific visible abnormalities of the chromosomes.

**OBJECTIVES**

- Construct karyotypes from the metaphase chromosomes of six fictitious insects.
- Analyze the karyotypes for chromosome abnormalities.
- Identify the genetic disorders of the insects by using their karyotypes.
- Hypothesize how karyotype analysis can be used to detect genetic disorders.

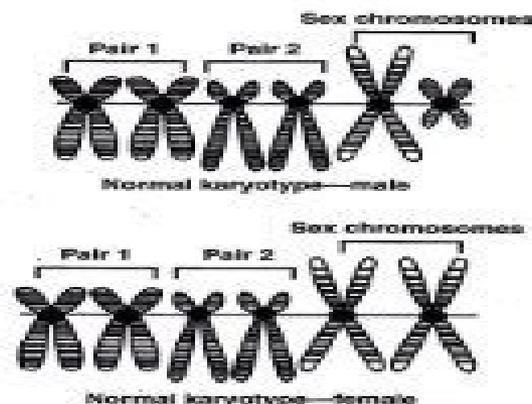
**PROCEDURE**

For this Investigation, assume that a new species of insect has been discovered. The insect has three pairs of very large chromosomes. Researchers have been able to trace four genetic disorders to specific

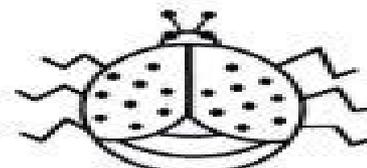
**MATERIALS**

- photocopies of metaphase chromosomes from six fictitious insects (2 pages)
- scissors
- glue
- goggles

chromosomal abnormalities in this insect. Study the karyotypes and phenotypes of normal male and female insects as illustrated in Figure 1.

**Figure 1**

Normal phenotypic male



Normal phenotypic female

# Bug Karyotype Lab Answers

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**Bug Karyotype Lab Answers:**

Fuel your quest for knowledge with is thought-provoking masterpiece, Dive into the World of **Bug Karyotype Lab Answers** . This educational ebook, conveniently sized in PDF ( PDF Size: \*), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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