

# **GENES ARE ON CHROMOSOMES !**

**An INTRODUCTION TO THE IDEA THAT CHROMOSOMES AND GENES ARE RELATED. BUT WHERE ON THE CHROMOSOME ARE THESE GENES LOCATED?**

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## PROCEDURE:

- 1) Read by starting in the third paragraph on Page 196. “Once the chromosome theory .....” Be sure to refer to figure 8.18 on page 197.
- 2) Discuss and explain what it is about with your partner.
- 3) Each student responds to the questions in complete sentences.  
BOTH NAMES on each paper. I will select **one** from your group to grade.

## The QUESTIONS:

1. The experiments were designed to find out the location of the genes on the chromosome. What were the two parts of the chromosome that the researchers were testing?
2. What is a radioactive tag?
3. In the first experiment what did the researchers label with the radioactive marker?
4. What were the results of **experiment one**?
5. In the second experiment what did they label with the radioactive tag?
6. What were the results of the **second experiment**?
7. What is the overall importance of both of these experiments? (What did we learn from their work?)