



Exploration

# STUDENT worksheet

Name \_\_\_\_\_

Date \_\_\_\_\_

## Atomic Split

### Overview

In this Exploration you will sequence events to show how atoms split, producing nuclear energy.

### Questions

1. How is the uranium isotope U236 created? How does it differ from uranium 235?

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2. How can splitting a single U236 nucleus lead to a chain reaction?

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3. Explain the formula  $E=mc^2$ .

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### How to Use This Exploration

1. Read the Introduction and click the Continue button.
2. Roll the mouse over each label to reveal the hints. Drag each to the correct place on the diagram.
3. Control the animation with the Stop and Play buttons. Read the outcome explanations as they appear and take notes.
4. Read the concluding text, take notes, and close.

### Data

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