

Name Jacob Alder

Phet Simulation
Nuclear Fission

Go to Phet Simulations. Find and open the sim called Nuclear Fission
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Click on 'Run Now' and select the tab that says 'Fission: One Nucleus'

Fission: One Nucleus:

Experiment with shooting the neutron gun and watch what happens.

- 1) What happens when the U-235 nucleus is "hit" with a neutron? There are a number of things that happen here, describe all of them in as much detail as you can. Use the pause button when needed.

The nucleus starts to gain a lot of kinetic energy and it moves back and forth. Then the nucleus splits into 2 parts. When the nucleus splits, three neutrons get released.

Chain Reaction:

Select the "Chain Reaction" tab at the top. Experiment with changing the settings and shooting the neutron gun and watch what happens. Then answer the questions below.

- 2) Click the 'Reset All' button and then set the initial number of U-235 nuclei to 100 and U-238 to 0. What happens when you fire the neutron gun?

When you fire the gun it splits one of the nucleus which touches another until all 100 nuclei are split into 2 parts.

- 3) Explain what makes this a "chain reaction".

This makes it a chain reaction because when one gets split it touches another one and it gets split, this chain reaction happens until only a few are left.

- 4) Click 'Reset' and then set the initial number of U-238 nuclei to 100 and U-235 to 0. Explain what happens when you fire the gun. Does this cause a chain reaction? Try multiple times to start a chain reaction with the U-238. Explain why this happens.

When u shoot the gun at U-238 it causes the nuclei to get one more and turn into U-239, this is not a chain reaction.

What is U-239? In what ways is it different from U-238?

U-239 has one more proton or neutron than U-238, the number represents the amount of protons and neutrons that the nuclei has.

- 5) Set the initial numbers of U-235 nuclei and U-238 nuclei to the numbers in the table below. Record your results.

U-235	100	70	50	30	0
U-238	0	30	50	70	100
% of ^{235}U fissioned after 1 firing	100%	0%	82%	3%	98%
# firings required to fission all ^{235}U	1 Firing	8 Firings	11 Firings	18 Firings	N/A

Phet Simulation Nuclear Fission Lad Answer Key

Chao Zhang



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