

# Nuclear Fission & Fusion Worksheet Answers

## 1) Explain the process of nuclear fission.

Heavy nuclei, such as those in uranium, are often unstable and may undergo **nuclear fission**, a process where the nucleus randomly splits into **two smaller nuclei** (sometimes referred to as 'daughter nuclei'). This fission can occur **spontaneously** or can be **induced** by external factors. During **nuclear fission**, a large amount of **energy** is released along with several **free neutrons**, in addition to the two smaller nuclei.

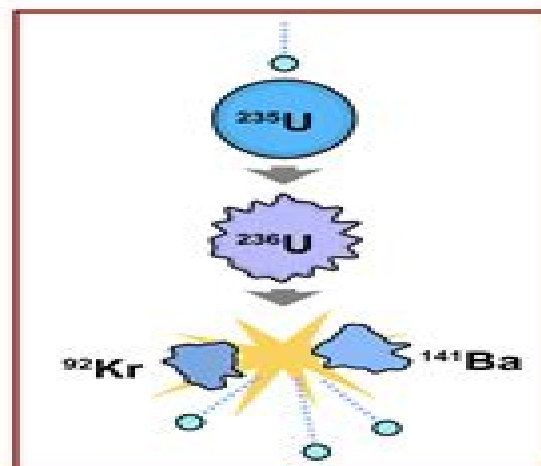
## 2) Explain, with the use of a diagram, an example of an induced nuclear fission. Include the steps involved in the nuclear fission.

Nuclear fission is depicted in the simple diagram as follows:

A **neutron** is approaching the nucleus of a **U-235** atom.

The **neutron** is absorbed by the nucleus, temporarily transforming it into an excited **U-236** atom.

The **U-236** atom undergoes **fission**, splitting into two smaller nuclei (**Ba-141** and **Kr-92**) and releasing three additional **neutrons**, along with a **substantial amount of energy**.



## 3) Explain why nuclear fission releases energy.

**Nuclear fission** releases energy because the resulting smaller nuclei have a greater **binding energy per nucleon** compared to the original, larger nucleus.

# Fission Fusion Worksheet

**Jianjun Gao**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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