PROGRAMME.

# Nuclear Fission and Fusion - Questions

Instructions: Identify the following descriptions as either fusion or fission.

Bequires at least two smaller atoms to occur	Fusion
2) The splitting of a large nucleus into smaller nuclei.	Fission
3) Usually occurs with light elements.	Fusion
4) Uranium-235 is struck by a neutron, releasing energy.	Fission
5) Usually starts with a beavy element.	Fission
6) Releases the most energy of the nuclear reactions.	Pasion
7) Often leads to a chain reaction effect.	Fission
6). Requires at least one heavy nucleus to start.	Fission
9). The seurce of energy in stars like the Sun.	Fusion
10). Used to generate energy in nuclear power plants.	Fission
11) Generates muclear waste that must be steered or buried	Pission

$$^{235}_{92}U + ^{1}_{0}n \longrightarrow ^{141}_{56}Ba + ^{92}_{36}Kr + 3^{1}_{0}n$$

13) Does the equation above represent fixting or fixting? Explain your reasoning.

Not currently utilized as an emergy source for humans.

The equation represents fusion because it starts with a large nucleus (Uranium) and a neutron. Afterwards, it splits into smaller nuclei.

# **Fission Vsfusion Key Questions**

Judd E. Hollander

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