**Physics Revision: Nuclear Fission**

Mastery Matrix Points TRIPLE ONLY

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| Explain the process nuclear fission (triple) |
| Explain chain reactions and how they are caused (triple) |
| Explain the process of nuclear fusion (triple) |
| Explain the conditions required for fusion (triple) |

Key Knowledge

Definition for nuclear fission:

Definition for nuclear fusion:

Nuclear fission

Start with:

The products are:

Two uses:

Nuclear fusion

Start with:

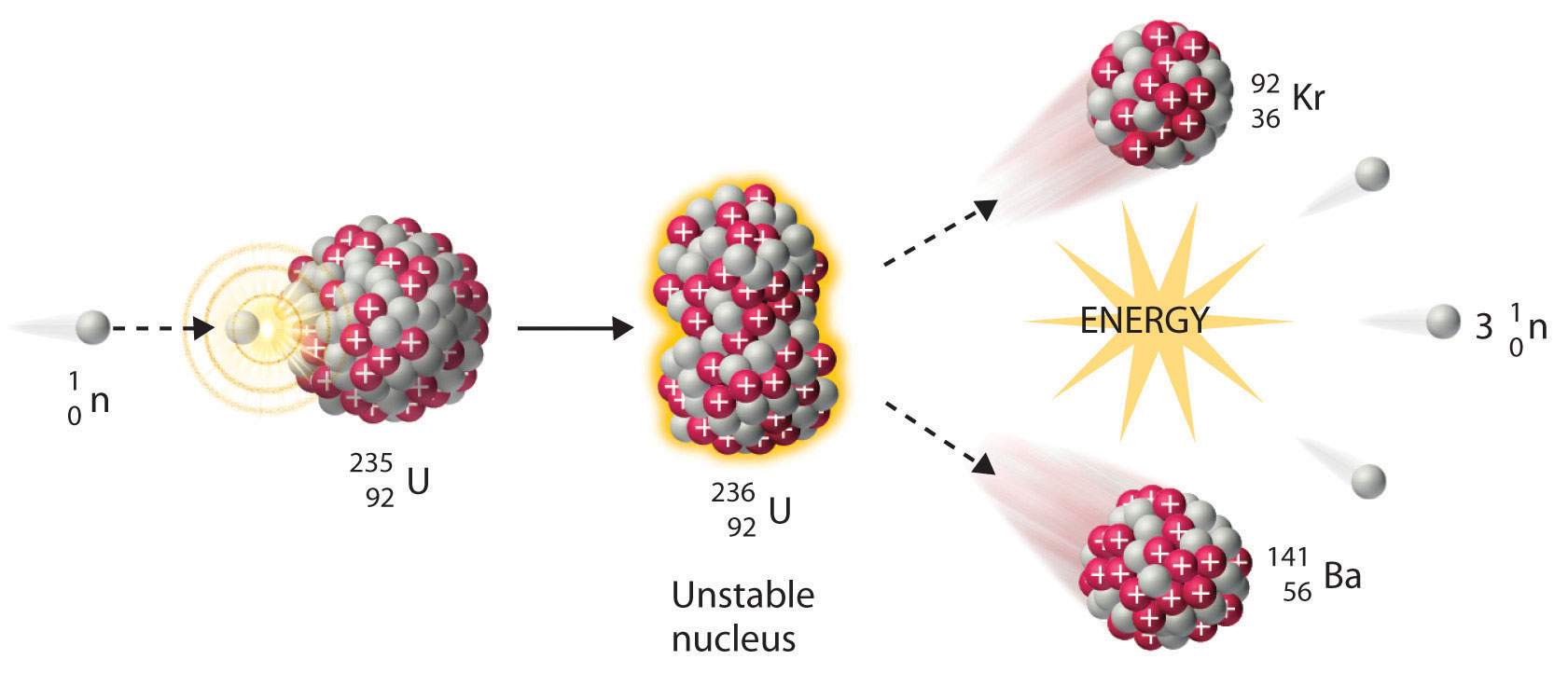
The products are:

Where does this happen?

**and Nuclear Fusion**

Understanding and Explaining

1. **Describe the process of nuclear fission in detail including the products and type of energy made.**
2. **Spontaneous fission is rare. Explain what is needed to start of a fission reaction.**
3. **Explain how the products of a fission reaction can go on to cause chain reactions.**
4. **Explain in sentences what is happening the fission reaction below.**



1. **Describe the process of nuclear fusion. Explain what is produced and where the energy comes from.**
2. **Describe and explain the conditions needed for nuclear fusion to occur.**