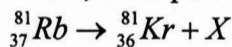


2. ${}_{90}^{231}\text{Th}$ undergoes BETA decay. Write the chemical equation below.



3. In the reaction below, what particle is represented by X?



- a. alpha b. beta c. gamma d. neutron **e. none of these**

4. Diagram how a chain reaction works.



5. Explain the steps that you take to determine the amount of energy that is created during fission or fusion.

- ① MASS OF reactants
- ② MASS OF products
- ③ Find difference in mass & convert to kg
- ④ Plug into $E=mc^2$

6. Diagram the energy levels of Boron until $n=3$. How much energy is absorbed in a transition $n=2$ to $n=3$?

