

get a GIZMO sheet (1/person)

- we're doing a "Percy version" today *(see notes and humble suggestions on the sheet)*
- due at end of hour

Friendly reminder:  
MP is due @ midnight tonight  
No HW Quiz

The screenshot shows the Gizmo interface for nuclear decay simulation. It is divided into two main panels: SIMULATION and DESCRIPTION.

**DESCRIPTION Panel:**

- Nuclear decay symbols table:**

Particle	Reaction Symbol
Alpha	$\frac{4}{2}\text{He}$
Beta	$\frac{0}{-1}\text{e}$
Electron	$\frac{0}{-1}\text{e}$
Positron	$\frac{0}{+1}\text{e}$
Proton	$\frac{1}{1}\text{p}$
Neutron	$\frac{1}{0}\text{n}$

**Simulation Panel:**

- Key:** Proton (purple), Neutron (grey), Electron (blue), Positron (red), Gamma (orange wavy arrow). **Thorium-234:** 90 protons, 144 neutrons.
- Write equation:**  ${}_{92}^{238}\text{U} \rightarrow {}_{2}^{4}\text{He} + {}_{90}^{234}\text{Th}$ . Feedback: "Good job!"
- Show equation:**  ${}_{92}^{238}\text{U} \rightarrow {}_{90}^{234}\text{Th} + {}_{2}^{4}\text{He}$
- Controls:** Type of decay: Alpha decay; Starting element: Uranium.

ExplorLearning logo and navigation buttons (HOME, TOOLBOX, COPY, etc.) are visible at the bottom.