

Activity B:**CNO Cycle**Get the Gizmo ready:

- In the **Reaction** menu, select **CNO cycle**.
- Select the **Write equation** checkbox.



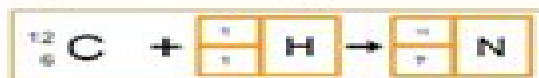
Introduction: In stars larger than the Sun, the **CNO cycle** is the main pathway for fusion. In this reaction cycle, a heavy atom like carbon or oxygen participates in each step. At the end of one cycle, the original heavy atom has been recreated and hydrogen has been transformed into helium. This reaction begins when temperatures reach 15,000,000 K or more.

Question: How do large stars form helium from hydrogen through fusion?

1. **Observe:** The Gizmo starts with an atom of carbon that reacts with the first hydrogen atom, and produces only one product. Click **Fire proton** to see what happens.

A. What did you see? A gamma is released

- B. Turn on **Write equation**. In the space below and in the Gizmo, write a balanced equation for this reaction. Then, turn on **Show equation** to check your work.



2. **Predict:** Click **Reset**. Go through the steps of the CNO cycle. Before each step, make a prediction about what the reaction will be, and type it into the Gizmo. You can use the information in the Gizmo to help you. As you check your answers in the Gizmo, write down the correct reaction below. Record the energy emitted in each step as well.

Step	Equation	Energy emitted
1	${}^{12}_{6}\text{C} + {}^1_1\text{H} \rightarrow {}^{13}_7\text{N}$	1.95MeV
2	${}^{13}_7\text{N} \rightarrow {}^{13}_6\text{C} + {}^0_{+1}\text{e}$	2.20MeV
3	${}^{13}_6\text{C} + {}^1_1\text{H} \rightarrow {}^{14}_7\text{N}$	7.54MeV
4	${}^{14}_7\text{N} + {}^1_1\text{H} \rightarrow {}^{15}_8\text{O}$	7.35MeV
5	${}^{15}_8\text{O} \rightarrow {}^{15}_7\text{N} + {}^0_{+1}\text{e}$	2.73MeV
6	${}^{15}_7\text{N} + {}^1_1\text{H} \rightarrow {}^{12}_6\text{C} + {}^4_2\text{He}$	4.96MeV

Key Terms Radioactivity And Nuclear Reactions Answer Key

Ying Liu



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