

Exercises

1. An equation in the model shows the fusion of two deuterium nuclei to form a nucleus of tritium. Suggest another product that might form in this reaction.



2. Describe how to find the identity of the species X in the equation

To identify the element,
Subtract 60 from 92



$$92 - 60 = 32$$

Germanium has an atomic number of 32.

Next, subtract the 152 + 1 from 235 to
determine the Ge isotope

$$235 - (152 + 1) = 82$$



3. What is missing in the following reaction?



4. An atom of U-235 absorbs a neutron and produces an atom of Sb-125 and four neutrons. Identify the other nuclide formed in this reaction. Write the equation to support your answer.

$$92 - 51 = 41$$

$$235 - (125 + 4) = 106$$

niobium-106



5. Identify the following equations as fission or fusion.

	Fission or Fusion?
${}^2_1\text{H} + {}^2_1\text{H} \rightarrow {}^3_1\text{H} + {}^1_1\text{p}$	Fusion
${}^{235}_{92}\text{U} + {}^1_0\text{n} \rightarrow {}^{141}_{56}\text{Ba} + {}^{92}_{36}\text{Kr} + 3 {}^1_0\text{n}$	Fission
${}^{235}_{92}\text{U} + {}^1_0\text{n} \rightarrow {}^{138}_{54}\text{Xe} + {}^{95}_{38}\text{Sr} + 3 {}^1_0\text{n}$	Fission
${}^3_2\text{He} + {}^3_2\text{He} \rightarrow {}^4_2\text{He} + 2 {}^1_1\text{H}$	Fusion

Chapter 25 Physical Science Fission And Fusion Work Sheets

Aron Thompson



Chapter 25 Physical Science Fission And Fusion Work Sheets:

Enrichment Worksheets, Student Edition, for Use with Glencoe Physical Science Aron Thompson, 1999

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