

Use with textbook pages 312–321.

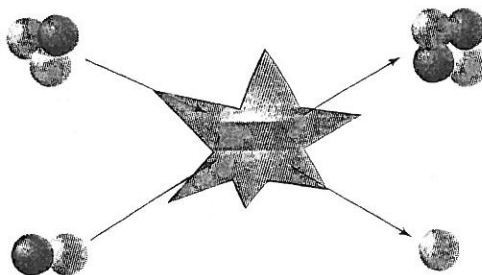
Comparing nuclear fission and fusion

1. Complete the following table.

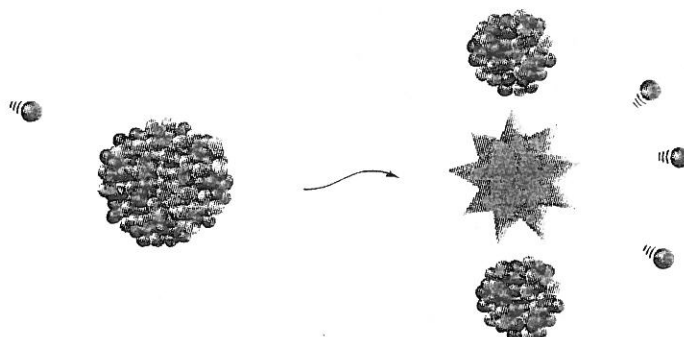
	Nuclear fission	Nuclear fusion
Give a description of the process.		
What is produced as a result of this nuclear process?		
Are the products radioactive?		
What is needed for this nuclear reaction to occur?		
Where does this process occur?		
Give an example of a nuclear equation.		

2. Identify the following diagrams as nuclear fission or nuclear fusion. Label the parent isotope(s), daughter isotope(s), neutron(s), and energy.

(a) _____



(b) _____



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Nuclear fission and fusion reactions

Remember the following two rules when working with nuclear equations:

- I. The sum of the mass numbers does not change.
- II. The sum of the charges in the nucleus does not change.

Identify each nuclear equation (nuclear fission or nuclear fusion) and then complete the nuclear equation.

