

## NUCLEAR FUSION-SET-1

1

Nuclear fusion is a reaction that takes place in stars.

Which row describes this reaction?

	action of atomic nuclei	energy
<b>A</b>	an atomic nucleus splits into two or more smaller nuclei	absorbed
<b>B</b>	an atomic nucleus splits into two or more smaller nuclei	released
<b>C</b>	atomic nuclei join together to form a larger nucleus	absorbed
<b>D</b>	atomic nuclei join together to form a larger nucleus	released

MS-1

D

2

What is meant by nuclear fusion?

- A** the emission of an electron from a nucleus
- B** the emission of two protons from a nucleus
- C** the joining together of two nuclei
- D** the splitting of a nucleus into two smaller nuclei

MS-2

C

3	<p>Energy is released in some nuclear reactions.</p> <p>Which nuclear reaction takes place in a nuclear power station, and which nuclear reaction takes place in the Sun?</p> <table border="1" data-bbox="288 371 860 669"> <thead> <tr> <th></th> <th>nuclear power station</th> <th>the Sun</th> </tr> </thead> <tbody> <tr> <td><b>A</b></td> <td>fission</td> <td>fission</td> </tr> <tr> <td><b>B</b></td> <td>fission</td> <td>fusion</td> </tr> <tr> <td><b>C</b></td> <td>fusion</td> <td>fission</td> </tr> <tr> <td><b>D</b></td> <td>fusion</td> <td>fusion</td> </tr> </tbody> </table>		nuclear power station	the Sun	<b>A</b>	fission	fission	<b>B</b>	fission	fusion	<b>C</b>	fusion	fission	<b>D</b>	fusion	fusion
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MS-3	B															
4	<p>What is the main process by which energy is produced in the Sun?</p> <p><b>A</b> combustion</p> <p><b>B</b> nuclear fission</p> <p><b>C</b> nuclear fusion</p> <p><b>D</b> radioactive decay</p>															
MS-4	C															