

- 5 (a) The table gives some statements about different parts of a nuclear reactor.

Place ticks (✓) in the boxes to show which statements are about the moderator and which statements are about a control rod in a nuclear reactor.

(3)

| | Moderator | Control rod |
|--|-----------|-------------|
| absorbs excess neutrons | | |
| can be made of boron | | |
| can be made of water or graphite | | |
| is lowered into or raised from the reactor core to adjust the rate of reaction | | |
| reduces the speed of neutrons so they are more likely to cause fission | | |

- (b) Describe the role of shielding around a nuclear reactor.

(2)

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