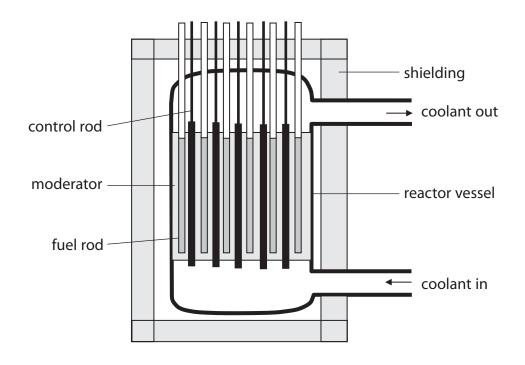
(2)

2 The diagram shows the main parts of a nuclear reactor.



(a) Draw a line linking each part of the reactor with its main function.

The first one has been done for you.

control rod

control rod

controls the rate of fission

coolant

absorbs dangerous radiation

fuel rod

contains uranium for fission

shielding

removes energy from the reactor

(b) State the type of energy released in a fission reaction.	(1)
(c) Explain the role of the moderator in a fission reaction.	(2)
(d) Explain, in terms of neutrons, what is meant by controlled nuclear fission.	(3)
(Total for Question 2 = 8 m	narks)

