

- 6** A thruster is used to launch a 500 kg rocket vertically upward from rest. This thruster ejects exhaust at a speed of 1000 m s^{-1} .

What should be the minimum rate, in kg s^{-1} , at which the exhaust leaves the thruster at the instant of launch?

A 0.5

B 2.0

C 4.9

D 20