

- 6** A rock on the surface of Mars is projected vertically upwards with an initial speed of 9.4 m s^{-1} . The rock rises to a height of 12 m above the surface.

Assume there is no atmosphere on Mars.

What is the acceleration of free fall near the surface of Mars?

- A** 0.39 m s^{-2} **B** 3.7 m s^{-2} **C** 7.4 m s^{-2} **D** 9.8 m s^{-2}