

10 An astronaut of mass m in a spacecraft experiences a gravitational force $F = mg$ when stationary on the launchpad. The spacecraft is launched vertically upwards with an acceleration of $0.2g$.

What is the gravitational force on the astronaut immediately after launch?

A $1.2mg$

B mg

C $0.8mg$

D 0

11 The gravitational field strength at the surface of Neptune is approximately equal to the gravitational field