

- 10** When at the surface of the Earth, a satellite has weight W and gravitational potential energy U . It is projected into a circular orbit whose radius is equal to twice the radius of the Earth.

Which of the following shows correctly the changes to the weight of the satellite and to its gravitational potential energy?

	Weight, W	Gravitational potential energy, U
A	becomes $W/2$	decreases by $U/2$
B	becomes $W/4$	increases by $U/2$
C	remains W	increases by U
D	becomes $W/4$	decreases by $U/2$

