

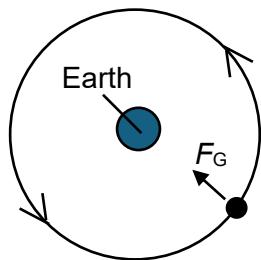
- 9** A satellite is orbiting the Earth at a constant angular velocity.

The gravitational force on the satellite is  $F_G$ .

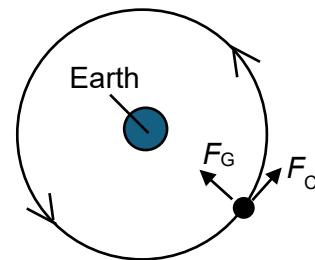
The centripetal force required to maintain the satellite in orbit is  $F_C$ .

Which diagram shows the force, or forces, acting on the orbiting satellite?

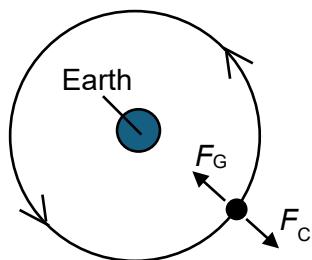
**A**



**B**



**C**



**D**

