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succerd

## Vertical Circular Motion

\| Remember to use conservation of energy.
In many situations involving vertical circles, in which the acceleration is not constant, then conservation of energy is the easiest way to find the speed at a particular point.


2 Make sure that you get the direction of moments right.
Remember that anticlockwise is considered to be positive and clockwise negative. Always draw a clear force diagram and use it to consider the direction of each force.

Remember to include reaction forces at a support or hinge in the force diagram.
These have no effect when you take moments about the support or hinge, but you need to take them into account when you resolve forces or take moments about a different point.
4 Work out a strategy to solve equilibrium problems.
Think about which unknown quantities you need to find, and look for ways of resolving and / or taking moments that will allow you to find them as efficiently as possible (ideally without having to solve simultaneous equations, although this may sometimes be unavoidable!)


