**Noteguide for Vertical Circle: (Videos 5C2) Name**

Example 2 – A 5.00 kg object goes 9.00 m/s in a 3.75 m radius vertical circle. Find the force needed at the top, and at the bottom.

Ex4 – A 1.15 kg mass moves at a uniform speed in a 3.78 m radius circle on the end of a rod. At the top, the rod is exerting a downward force of 5.02 N on the mass.

a) What is the centripetal acceleration of the mass?

b) What is its speed?

c) What force does the rod exert at the bottom?