Hello, this is Principles of Engineering System unit, learning outcome 8 analysing mass, spring, damper system responses.

So, we are going to apply a force, a motor connected to an unbalanced disc which will cause to beam to go up and down. The output is amplitude or displacement and it can be recorded on the paper. We will start the motor and take ten different speeds; at each speed we will mark the paper. After taking all the readings we will take the paper off and measure the amplitude at each of the speeds. The results are analysed in excel and this is demonstrated in another video. Start the motor and we will see the effect that the beam is moving. Set to motor to 500 RPM, start the paper and mark with paper with a one for the first reading. Then increase to next speed and mark the second point.

Thank you for listening.