Practical 7: Investigation into simple harmonic motion using a mass-spring system and a simple pendulum

Part 1: Simple pendulum to investigate how the time period varies with length and to measure g

Contribution from Marcin Poblocki, Senior Physics Technician at Manchester Grammar School
Attaching the pendulum bob as shown in the diagram – close up shot
Taking a length measurement before suspending the pendulum bob from the stand using a pin and Blu-tack as a fiducial marker
Pulling the pendulum bob to one side before its release, oscillating with small amplitude and in a straight line
Practical 7 – Part 2: Mass-spring system

Contribution from Marcin Poblocki, Senior Physics Technician at Manchester Grammar School
Hanging the spring and mass hanger from the clamp as shown in the diagram
With fudicial marker in position as a reference point...
...pull the mass hanger down a few cm and release...
...before seeing the spring oscillate vertically up and down