

Mechanics Module 5 – Equipment List and Setup

What	Qty	Activities
Spring-mass system. The mass should be about 100 grams.	1	7, 8
Motion Sensor	1	8
Popper	1	14
Doubled Force Sensors	1	14
Tape Measure	1	14
Connector for popper and doubled Force Sensors	1	14

Setup Notes and Equipment Sources:

The spring-mass system should have a period of oscillation of about 0.7 seconds. The mount needs to be high enough that when it is vertically oscillating with a maximum amplitude of about 3 cm, at the bottom of the oscillation the mass can be at least 15 cm above the Motion Sensor.

I bought the existing poppers from Educational Innovations:

<http://www.teachersource.com/Energy/EnergyConversion/DropperPopper.aspx>

There it called a “Dropper Popper”, Item # POP-100. They are apparently made in Australia.

DMH – October/08

The meter stick is replaced by a tape measure in Activity 14 – November/2012