

7Kb Springs

Q.3 e.g. Set up the apparatus so that the zero on the ruler is next to the bottom of the unstretched spring; add a mass to the spring and measure the extension; add further masses, measuring the extension each time.

Q.5 a) Both materials change shape when a force is applied; an elastic material returns to its original shape when the force is removed but a plastic material does not.

b) Any plastic material such as: clay, modelling clay, adhesive tack.

Q. 6 a) A

b) A and C; the graphs are straight lines/the extension is proportional to the force

c) A, as it stretches the most for a small weight. This would make the scale easier to read/make it possible to detect small differences in force.