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stretched length l unstretched length l_0

1 The class is investigating the stretching of a spring. Fig. 1.1 shows the apparatus.

$x = \text{extension} = l - l_0$

Usually, $F = kx$

spring constant
(stiffness; smaller
no. $\rightarrow$ easier to
stretch)

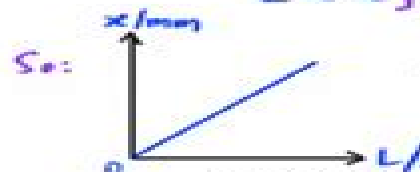
But here, $L = F$

$\therefore L = kx$

$L \propto x$

L and x are
directly proportional

Graph is
straight line
passing through
origin (0,0)



(a) (i) On Fig. 1.1, measure the length l_0 .
Record l_0 in Table 1.1 at load $L = 0.0 \text{ N}$.

(ii) Explain why l_0 is not measured to point X on the spring.

The ring does not stretch (1 mark)

(b) A student hangs a 1.0 N load on the spring. He records the new length l of the spring.

He repeats the procedure using loads of 2.0 N , 3.0 N , 4.0 N and 5.0 N . The readings are shown in Table 1.1.

Table 1.1

L/N	0.0	1.0	2.0	3.0	4.0	5.0
l/mm	14	17	20	21	23	25

Describe one precaution that you would take in order to obtain reliable readings.

View the ruler scale perpendicularly } 1 mark for either

OR Use a set square as a fiducial aid } 1 of these

* Fiducial aid = A line used to find the level of something or measure something against

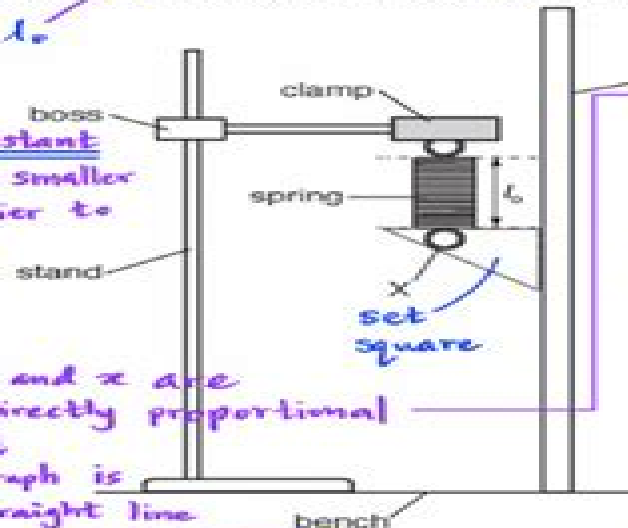


Fig. 1.1

metre rule

Also: If $L \times 2$, x will $\times 2$;
if $L \times 3$, x will $\times 3$;
if $L \times \frac{1}{2}$, x will $\times \frac{1}{2}$,
etc.

But: $L = kx$

$L = k(l - l_0)$

$$l = \frac{1}{k}L + l_0$$

$$y = mx + c$$

So: Gradient is $\frac{1}{k}$ and
y-intercept is l_0

And: Because of the $+c$,
 l and L are not
directly proportional;
straight line graph
not passing
through origin (0,0)

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Gillian Nightingale



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