



$$F = -kx \rightarrow \text{HOOKE'S LAW}$$

↑ FORCE REQUIRED (N) ↑ (STRETCH of SPRING IN METERS)

SPRING CONSTANT IS MEASURED IN $[N/M]$

$$\textcircled{a = bc}$$

$$a = b/k$$

e.g. $\left. \begin{array}{l} k = 5 \frac{N}{m} \\ F = 55 N \end{array} \right\} \begin{array}{l} F = -kx \\ 55 N = -5 \frac{N}{m} x \\ (x = -11 m) \end{array}$

$$\mu = \frac{F_f}{F_N}$$

$$F_f \leq \mu F_N = (mg)\mu$$

↑ DETERMINED EXPERIMENTALLY