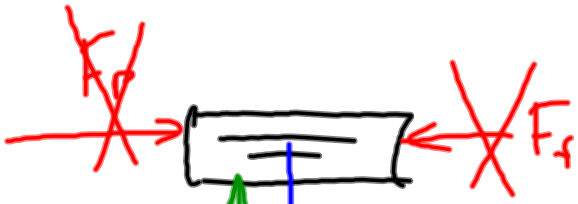


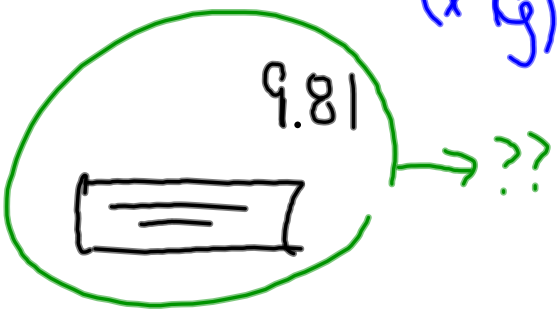
F_g = Force of Gravity

= Weight of Book

= m g ← 9.81 m/s²

(x kg)

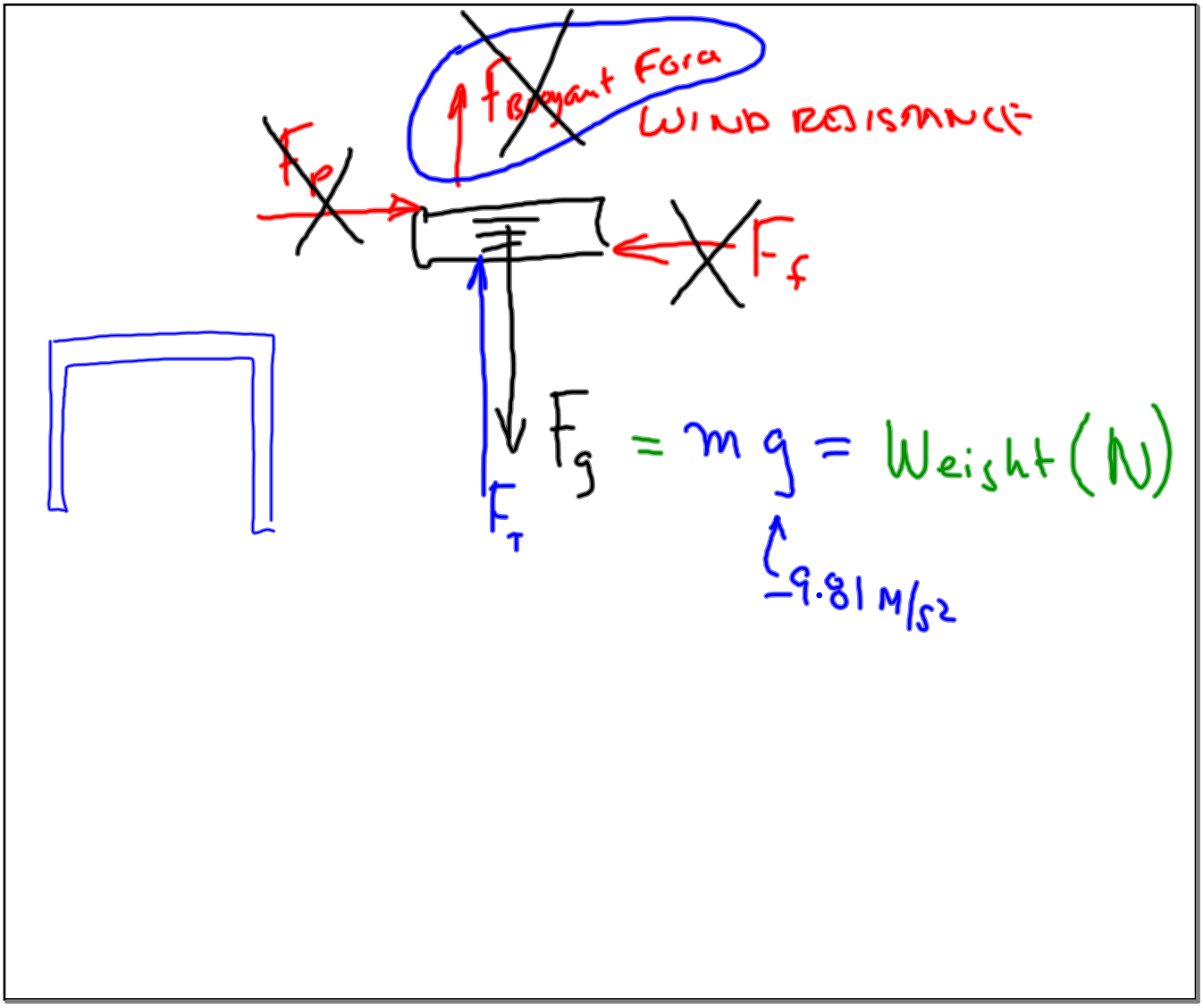
F_T



$\Sigma F's = ma$ when you're either at rest or moving at constant speed

NET FORCE $= 0$

THE NET FORCE = 0.


Buoyant Force
WIND RESISTANCE
$F_g = m g = \text{Weight (N)}$
$9.81\ m/s^2$
F_T

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$F = G\dfrac{m_1 m_2}{r^2}$

m_1: 90 kg

m_2: 8.9×10^{22} kg

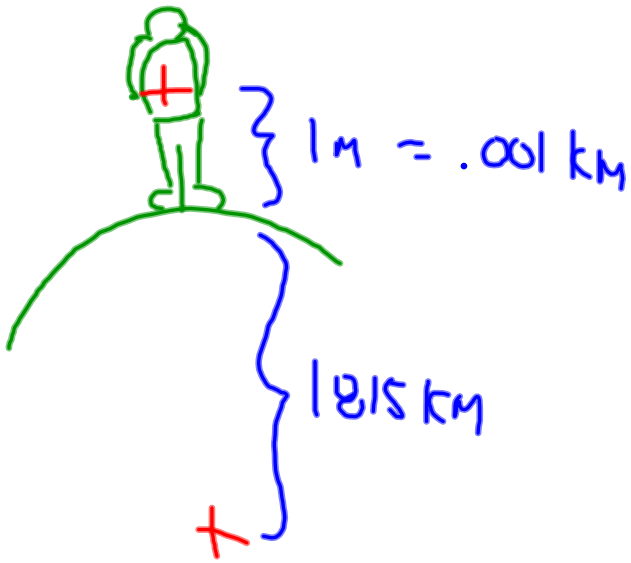
r^2 ← 1815 km = 1815000 METERS

$6.67 \times 10^{-11} \dfrac{(N)(m)^2}{(kg)^2}$

$(N)(m)^2$

$N \cdot m^2$

$N \times m^2$



EMPIRICAL

=> PROVEN BY OBSERVATION