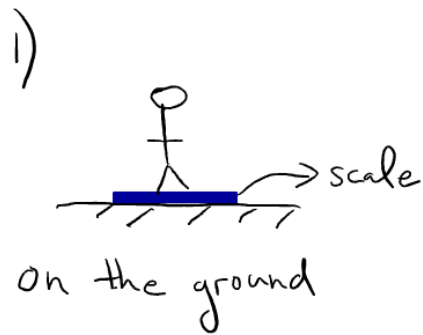
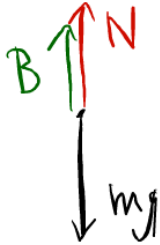
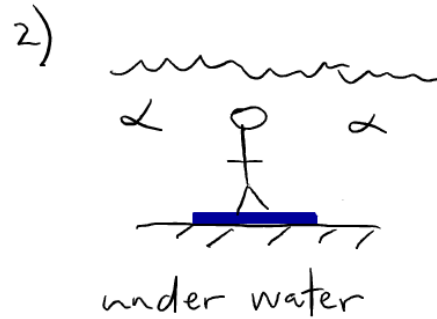


Apparent Weight $\Rightarrow N$



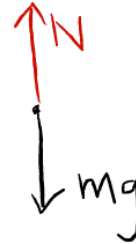
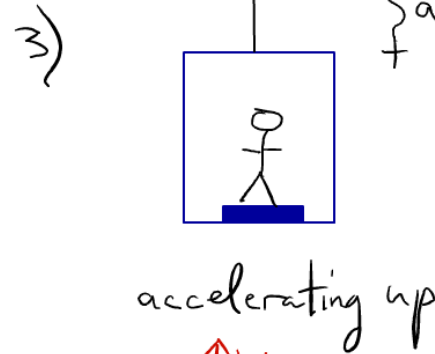
$$N - mg = \phi$$

$$N = mg$$



$$N + B = mg$$

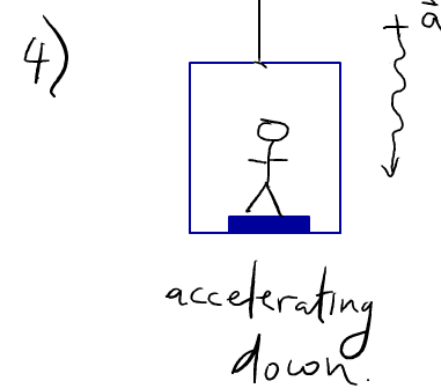
$$N = mg - B$$



$$N - mg = ma$$

$$N = ma + mg$$

$$N = m(a + g)$$

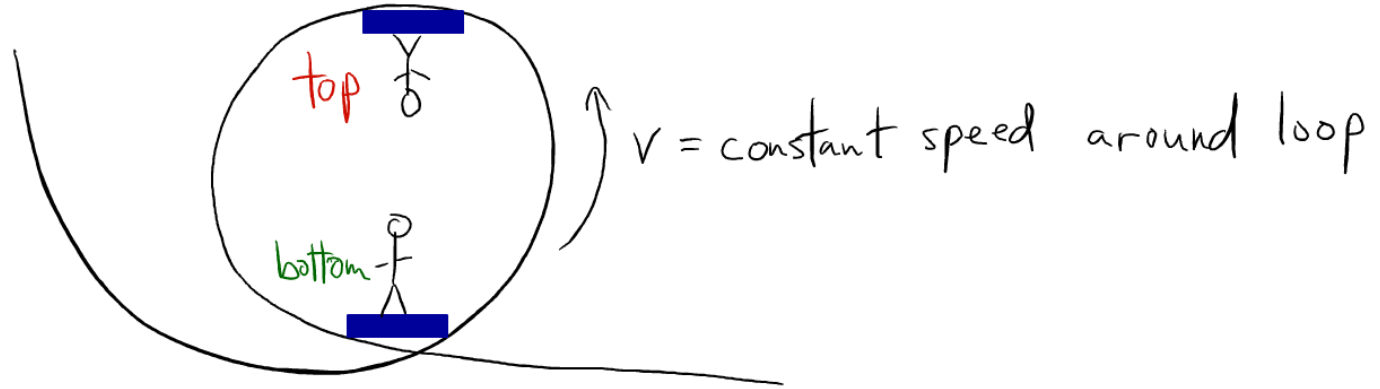


$$mg - N = ma$$

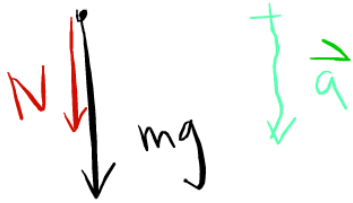
$$N = m(g - a)$$

Level: AP Physics, 1st year introductory physics

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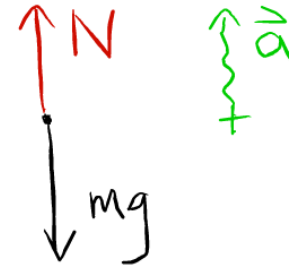
top



$$N + mg = ma_c = \frac{mv^2}{R}$$

$$N = \frac{mv^2}{R} - mg \quad \text{Top}$$

bottom



$$N - mg = \frac{mv^2}{R}$$

$$N = \frac{mv^2}{R} + mg \quad \text{Bottom}$$