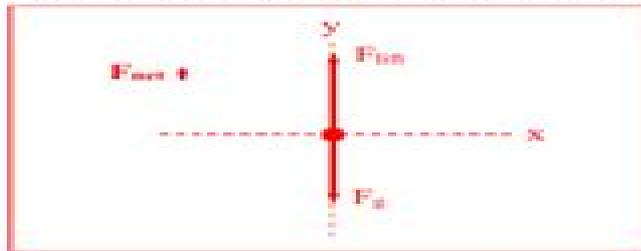


## Net Force Particle Model Worksheet 2: Newton's 2nd Law

1. A 4600 kg helicopter accelerates upward at  $2.0 \text{ m/s}^2$ . Determine the lift force exerted on the propellers by the air. **Make a quantitative force diagram. Write a net force equation for the axis along which forces are not balanced.**



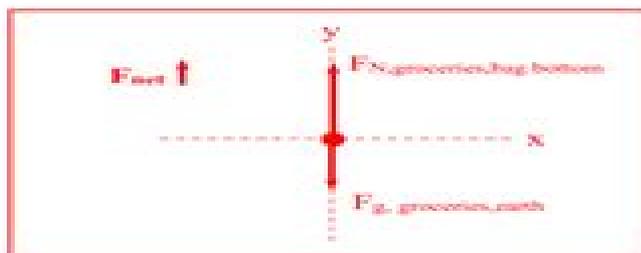
$$F_{\text{net}} = ma$$

$$F_{\text{net}} + F_g = ma$$

$$F_{\text{net}} = ma - F_g$$

$$F_{\text{net}} = 4600\text{kg} \left( 2.0 \frac{\text{m}}{\text{s}^2} \right) - (4600\text{kg} \times -10 \frac{\text{m}}{\text{s}^2}) = 55,200\text{N}$$

2. The maximum force that a grocery bag can withstand without ripping is 250 N. Suppose that the bag is filled with 20 kg of groceries and lifted with an acceleration of  $5.0 \text{ m/s}^2$ . Do the groceries stay in the bag? **Make a quantitative force diagram. Write a net force equation for the axis along which forces are not balanced.**



Bag rips

$$F_{\text{net}} = ma$$

$$F_N + F_g = ma$$

$$F_N - 200\text{N} = 20\text{kg} \left( 5.0 \frac{\text{m}}{\text{s}^2} \right)$$

$$F_N = 300\text{N}$$

The bag would have to provide a 300N force on the groceries to produce this acceleration. The 300N force provided by the groceries *on the bag* are greater than the 250 N limit. The bag rips.

# Net Force Particle Model Elevator Lab Answers

**Robert R. Redfield**



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