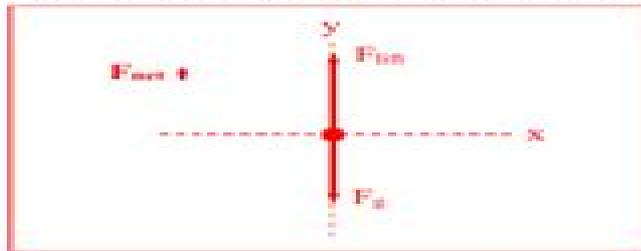


## Net Force Particle Model Worksheet 2: Newton's 2nd Law

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.**



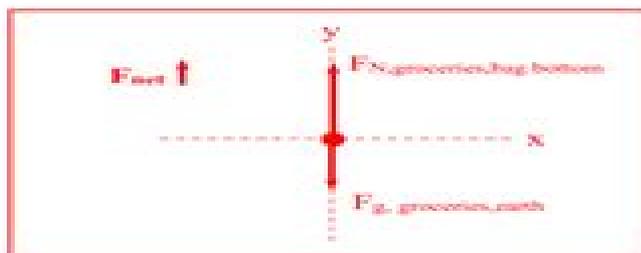
$$F_{\text{net}} = ma$$

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

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

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

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

**Arturo Cuomo**



**Net Force Particle Model Elevator Lab Answers:**

## Unveiling the Magic of Words: A Report on "**Net Force Particle Model Elevator Lab Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Net Force Particle Model Elevator Lab Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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