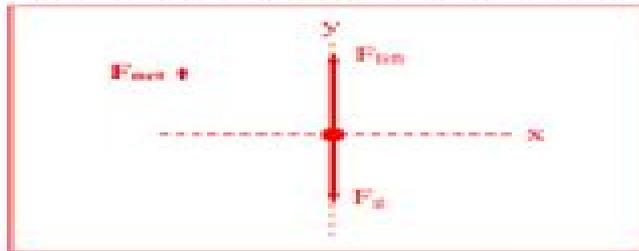


## Net Force Particle Model Worksheet 2: Newton's 2nd Law

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.**



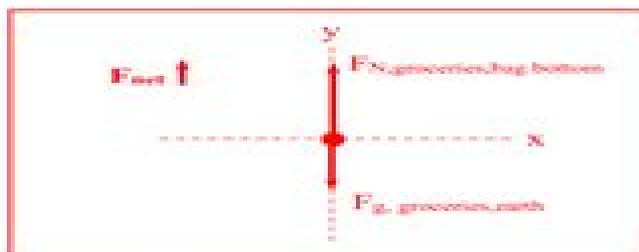
$$F_{\text{net}} = ma$$

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

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

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

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

**Sebastian Brünink**



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instrument panel behind the cover on the driver's side. Engine compartment fuse box location: Fuse Box Diagram | Layout. Seat Altea XL fuse box diagrams for all years Explore interactive fuse box and relay diagrams for the Seat Altea XL. Fuse boxes change across years, pick the year of your vehicle: Is ... Seat Altea (2005) - fuse box diagram Mar 8, 2018 — Seat Altea (2005) - fuse box diagram · Fuses box on the left side of dash panel · Location under steering wheel, on relay carrier · Fuses layout in ... Seat Altea 2010 Fuse Box The fuse box is located under the instrument panel behind the cover on the driver's side. Engine compartment fuse box location: Fuse Box Diagram | Layout. SEAT Fuse & Relay Diagram. PDF Download - Volkswagen Here you will find SEAT fuse box diagrams, Relay and Fitting locations: SEAT Arona, Ateca, Alhambra, Ibiza / Cordoba, Toledo / Altea, Leon, Arosa, Inka, ... Boy, Snow, Bird: A Novel by Oyeyemi, Helen Boy is a white woman who flees her abusive father in New York City to Flax Hill, a small town in Massachusetts. There she marries a widowed man named Arturo ... Boy, Snow, Bird by Helen Oyeyemi Aug 27, 2013 — Read 4728 reviews from the world's largest community for readers. BOY Novak turns twenty and decides to try for a brand-new life. Boy, Snow, Bird Boy, Snow, Bird is a 2014 novel by British author Helen Oyeyemi. The novel, Oyeyemi's fifth, was a loose retelling of the fairytale Snow White. Boy, Snow, Bird - Helen Oyeyemi Dazzlingly inventive and powerfully moving, Boy, Snow, Bird is an astonishing and enchanting novel. With breathtaking feats of imagination, Helen Oyeyemi ... 'Boy, Snow, Bird,' by Helen Oyeyemi Feb 27, 2014 — Set in the 1950s, Oyeyemi's novel opens on the Lower East Side of New York City, with a young white woman named Boy Novak running away from her ... Boy, Snow, Bird The latest novel from Oyeyemi (Mr. Fox) is about a woman named Boy; her stepdaughter, Snow; and her daughter, Bird. Set in the 1950s Massachusetts, ... Boy, Snow, Bird by Helen Oyeyemi review Oct 4, 2015 — Helen Oyeyemi's fifth novel finds her treating the horrors of racism in 1950s America with gentle, magical style. Boy, Snow, Bird by Helen Oyeyemi - Sometimes Leelynn Reads Mar 26, 2020 — Title: Boy, Snow, Bird Author: Helen Oyeyemi Genre: Literary Fiction Format: Hardcover Length: 308 pages. Publisher: Riverhead Books Boy, Snow, Bird by Oyeyemi, Helen Dazzlingly inventive and powerfully moving , Boy, Snow, Bird is an astonishing and enchanting novel. With breathtaking feats of imagination, Helen Oyeyemi ... Boy, Snow, Bird: A Novel (Paperback) Dazzlingly inventive and powerfully moving, Boy, Snow, Bird is an astonishing and enchanting novel. With breathtaking feats of imagination, Helen Oyeyemi ... Handbook on Injectable Drugs : Critical Care Medicine by M Nguyen · 2013 · Cited by 1 — The Handbook on Injectable Drugs, by Lawrence Trissel, is a must-have reference for all pharmacists who work in a facility that compounds or distributes ... Handbook on Injectable Drugs: Trissel FASHP, Lawrence A The 16th edition of the Handbook on Injectable Drugs brings together a wealth of information on 349 parenteral drugs commercially available in the United States ... Handbook on Injectable Drugs, 15th Edition Since the publication of its first edition, "The Handbook on Injectable Drugs", edited by Lawrence A. Trissel, has sold well over 10,000 copies in print and ... Handbook on Injectable Drugs Users Guide The Handbook on Injectable Drugs is designed for use as a professional reference and guide to the literature on the clinical

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