

UNIT V: Worksheet 2

For each of the problems below, you *must* begin your solution with a force diagram. Some require more than one diagram.

1. A 4600 kg helicopter accelerates upward at 2.0 m/s^2 . What lift force is exerted by the air on the propellers?

$F_a > F_g$ because of positive acceleration in positive direction.



$F_{\text{air} \rightarrow \text{rotor}} (F_{\text{applied}})$

$F_{\text{earth} \rightarrow \text{rotor}} (F_g = 4600\text{kg} \cdot 10\text{N/kg})$

CV : $F_{\text{net},x} = 0\text{N}$ (no forces acting in x-direction)

UA: $F_{\text{net},y} > 0\text{N} = F_g + F_a = (-46000\text{N}) + F_{\text{applied}}$

$F_{\text{net},y} = (4600\text{kg} \cdot 2.0\text{m/s}^2) = 9200\text{N}$

$F_{\text{applied}} = +55200\text{N}$

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 m/s^2 . Do the groceries stay in the bag?

3. A student, standing on a scale in an elevator at rest, sees that his weight is 840 N. As the elevator rises, his weight increases to 1050 N, then returns to normal. When the elevator slows to a stop at the 10th floor, his weight drops to 588 N, then returns to normal. Draw a motion map for the student during his elevator ride. Determine the acceleration at the beginning and end of the trip.



Beginning: $F_{\text{net}} = F_g + F_a = -840\text{N} + +1050\text{N} = +210\text{N}$

$a = F_{\text{net}} / m = +210\text{N} / 84\text{kg} = +2.5\text{m/s}^2$

Middle: $F_{\text{net}} = F_g + F_a = -840\text{N} + +840\text{N} = 0\text{N}$ (constant velocity)

$a = F_{\text{net}} / m = +0\text{N} / 84\text{kg} = 0 \text{ m/s}^2$

End: $F_{\text{net}} = F_g + F_a = -840\text{N} + +588\text{N} = -252\text{N}$

$a = F_{\text{net}} / m = +210\text{N} / 84\text{kg} = -3.0\text{m/s}^2$

4. A sign in an elevator states that the maximum occupancy is 20 persons. Suppose that the safety engineers assume the mass of the average rider is 75 kg. The elevator itself has a mass of 500 kg. The cable supporting the elevator can tolerate a maximum force of 30,000 N. What is the greatest acceleration that the elevator's motor can produce without snapping the cable?

Modeling Chemistry Unit 10 Ws 2 Answers

LL Leslie



Modeling Chemistry Unit 10 Ws 2 Answers:

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