



Draw and label the forces acting at each stage of the falling skydiver.



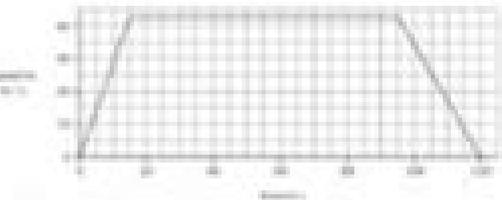
The w _____ acts downwards so at first the skydiver a _____ but as v _____ increases with speed. This causes the resultant force to d _____ so then the acceleration d _____ until the forces are eventually b _____ causing t _____ v _____.



(a) State a mathematical word equation relating stopping distance, braking distance and thinking distance.



Measure the original l _____ of the spring. Add a m _____ and measure the new length. S _____ the original from the new length. R _____ for a range of values of load. Plot a graph of e _____ against w _____. The force should be p _____ to extension.



A plane travels on a journey across the sea.

- (a) Estimate the value of the constant speed.
- (b) Calculate the acceleration at the start.
- (c) Calculate the total distance travelled.



(a) State the equation relating moment, force and distance.

(b) A force of 25N is applied 35cm away from the pivot. Calculate the lifting moment and give the unit.

(a) State two factors which affect the braking distance of a car.

(c) State two factors which affect the thinking distance of a car.



(a) State the equation relating weight, mass and gravity.

(a) An 80kg man stands on some scales. Calculate his weight in newtons.



Use a s _____ m _____ to measure the time and a tape to measure the h _____. Drop from a large height and take the time for cupcake tray to fall. R _____ readings. Use v _____ d _____ / t _____ to calculate terminal velocity.

List the types of force:

- G _____
- W _____
- E _____
- M _____
- F _____ / P _____
- F _____
- T _____

- N _____
- A _____ R _____
- T _____

FORCE & MOTION

(a) Draw on the picture the forces acting on a bubble floating upwards in a fizzy drink.

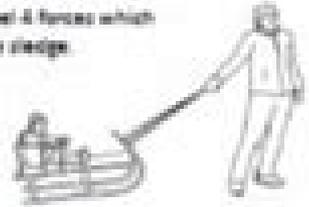
(b) To the side, draw an a _____ additional arrow to represent the resultant force on the bubble.



A man pulls his child on a sledge. The sledge is accelerating in the direction of the man.

(a) Draw and label 4 forces which are acting on the sledge.

(b) State the equation relating force, mass and acceleration.



(c) The mass of the child and the sledge is 30 kg. Calculate the size of the resultant force.

(a) State the equation relating acceleration, time and initial and final velocity.

(c) The sledge accelerates from rest to 2.8m/s in 2s. Calculate the acceleration.

(a) State the equation relating speed, radius of orbit and time period.



(b) The International Space Station takes 90 minutes to orbit the Earth at 6000 km from the center of the Earth. Calculate the orbital speed in km/s.



Comets travel in a _____ orbits around the s _____.
(a) What type of force keeps the comet in its orbit?

(b) Draw the direction of the force acting on the comet at point B.

(c) At which of the 3 points does the comet possess the most KE?

(d) At which of the 3 points does the comet possess the most GPE?

G _____ causes m _____ to orbit the planets and the planets to orbit the s _____. Our solar system is in the M _____ W _____. A g _____ is made up of billions of stars. The v _____ is made up of billions of galaxies.



Physics Revision Notes Forces And Motion

Anthony S. Fauci



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