

Revision Notes for Mechanics 1

Motion at a constant acceleration

Learn these formulae:

$$S = ut + \frac{1}{2}at^2 \quad v = u + at \quad v^2 = u^2 + 2as \quad s = \frac{1}{2}(u + v)t \quad s = vt - \frac{1}{2}at^2$$

For each question, write down what you want and what you've got then choose which formula to use.

Pulleys

To find the acceleration, resolve using $f=ma$ for each object separately then solve the 2 equations simultaneously. Decide which way you think the objects will move and resolve in that direction e.g.  so you get $T - mg$ for one object and $mg - T$ for the other.

For vehicles towing, same process applies so either resolve ($f=ma$) for each object and solve simultaneously or look at the whole system as one.

Variable Acceleration

If the question has an expression for the displacement, velocity or acceleration, then need to differentiate or integrate to move between the 3 measurements.



Remember the constant when integrating and you will have enough information to find it.

Objects on a Slope

Resolve parallel and perpendicular to the slope using $F=MA$ and $F=\mu R$ if friction present. Remember if it is on the point of moving, it is limiting friction so friction is a maximum and the forces are balanced. This means you can find μ as friction is at a maximum.



Remember if an extra horizontal force is applied, the normal contact force will change as the new force is pushing into the slope as well so friction will change.

Momentum

Decide which direction you are taking as positive and stick to it.

Then find momentum before = momentum after. (momentum is conserved)

$$mu = mv$$

Remember to apply frictional force if there is one.

Projectiles

Use equations of constant acceleration from above as acceleration is only due to gravity. Decide which way is positive and stick to it. Usually use the direction it is projected in at first.

S = displacement so if it goes up and then comes down, $s=0$ on 2 occasions (e.g $t=0$ and when it comes back down.) You will probably use $s=ut + \frac{1}{2}at^2$ and solve for t .

Graphs

For displacement against time: Gradient = velocity

For velocity against time: Gradient = acceleration Area = displacement

To find the area can use the area of a trapezium: $\frac{(\text{Sum of the parallel sides}) \times \text{height}}{2}$

Forces from a Point

- Either: 1) Resolve vertically and horizontally then use Pythagoras to find the magnitude of the resultant and trig for the angle.
2) Use triangle law to combine 2 forces and find the resultant.

Mechanics 1 Revision Guide

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1. Understanding the eBook Mechanics 1 Revision Guide
 - The Rise of Digital Reading Mechanics 1 Revision Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics 1 Revision Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mechanics 1 Revision Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics 1 Revision Guide
 - Personalized Recommendations
 - Mechanics 1 Revision Guide User Reviews and Ratings
 - Mechanics 1 Revision Guide and Bestseller Lists
5. Accessing Mechanics 1 Revision Guide Free and Paid eBooks
 - Mechanics 1 Revision Guide Public Domain eBooks
 - Mechanics 1 Revision Guide eBook Subscription Services
 - Mechanics 1 Revision Guide Budget-Friendly Options
6. Navigating Mechanics 1 Revision Guide eBook Formats

- ePub, PDF, MOBI, and More
- Mechanics 1 Revision Guide Compatibility with Devices
- Mechanics 1 Revision Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanics 1 Revision Guide
 - Highlighting and Note-Taking Mechanics 1 Revision Guide
 - Interactive Elements Mechanics 1 Revision Guide
- 8. Staying Engaged with Mechanics 1 Revision Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanics 1 Revision Guide
- 9. Balancing eBooks and Physical Books Mechanics 1 Revision Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanics 1 Revision Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanics 1 Revision Guide
 - Setting Reading Goals Mechanics 1 Revision Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanics 1 Revision Guide
 - Fact-Checking eBook Content of Mechanics 1 Revision Guide
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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