

Exam Preparation Guide

Dr. Pulat Tadjimuratov

Introduction

This guide is designed to help you prepare for the Physics (Physics 1) exam. It provides an overview of key topics, along with links to relevant YouTube videos, KhanAcademy lessons, and textbook references.

Kinematics

Key Concepts

- Displacement, velocity, acceleration - Equations of motion

Recommended Resources

- [YouTube: Kinematics in One Dimension \(Physics Videos by Eugene Khutoryansky\)](#)
- [KhanAcademy: One-Dimensional Motion](#)
- **Textbook:** "University Physics" by Young and Freedman, Chapter 2

Dynamics

Key Concepts

- Newton's Laws of Motion - Forces and acceleration - Friction and inclined planes

Recommended Resources

- [YouTube: Newton's Laws \(MinutePhysics\)](#)
- [KhanAcademy: Forces and Newton's Laws of Motion](#)
- **Textbook:** "Fundamentals of Physics" by Halliday, Resnick, and Walker, Chapter 4

Physical Science Exam Preparation Guide

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evaluate problem solving strategies for rotational kinematics just by using our intuition we can begin to see how rotational quantities like θ , ω and α are related to one another for example if a motorcycle wheel has a large angular acceleration for a fairly long time it ends up spinning rapidly and rotates through many revolutions

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