Lesson 3: Newton's Laws

Henry Ding

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Newton's Law

Types of Forces

Homework 3

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Henry Ding

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Homework Questions?

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Forces

Newton's Law

Types of Forces

Homework

Force

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Forces

Newton's Law

vnes of Forces

Homework 1

Definition

A **force** is

Systems

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Forces

Newton's Law

Types of Forces

Homework ?

Internal/External Forces

Types of Forces

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Forces

Newton's Law

Types of Forces

Homework :

Some examples of forces

- Gravity
- Tension
- Friction

Newton's First Law

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Types of Forces

Homework :

Newton's First Law Mass

Newton's Second Law

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Newton's Laws

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Newton's first law discuss objects moving at constant velocity, but they can also be accelerating...

Theorem (Newton's Second Law)

Test

$$\mathsf{F}_{\mathrm{net}} = \sum \mathsf{F} = m\mathsf{a}$$

Inertial Frames

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Newton's Laws

Types of Forces

Homework 1

Airplane example

Newton's Third Law

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Types of Forces

Homework

Gravitational Force

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Example

Free fall

Normal Force

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Example

Book, earth, 3rd Law Pairs

Friction

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Static, Kinetic Friction

Tension

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Example

Holding up a block by rope

Thrust

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Example

Rocket thrust

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Textbook Problems

Test