



# विज्ञान के शिक्षण और सीखने के लिए ई-सामग्री विकसित करना

विषय  
भौतिकी

रमेश प्रसाद बडोनी  
प्रवक्ता भौतिकी -आई टी विभाग  
एस सी आर टी उत्तराखण्ड

केंद्रीय शैक्षिक प्रौद्योगिकी संस्थान, एनसीईआरटी, नई दिल्ली

# आज के संबोध - CONTENTS

ई कंटेंट का अर्थ

ई कंटेंट के प्रकार

ई कंटेंट का विकास

वेब आधारित टूल्स

एप या सॉफ्टवेयर टूल्स



## ई - कंटेंट



- "ई कंटेंट" एक ऑनलाइन या इलेक्ट्रॉनिक माध्यम के माध्यम से साझा की जाने वाली जानकारी या सामग्री
- इंटरनेट या डिजिटल प्लेटफॉर्म पर उपलब्ध
- लेख, वीडियो, ऑडियो, छवियाँ, और अन्य मल्टीमीडिया सामग्री।

# ई-कॉन्टेंट के प्रकार

Canva,  
Word  
Cloud

टेक्स्ट , फोटो ,  
पोस्टर

PhET,  
Olab

एनिमेशन सिमुलेशन  
इंफोग्राफिक्स

Spotify,  
Loom

ऑडियो  
विडिओ

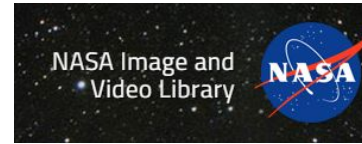
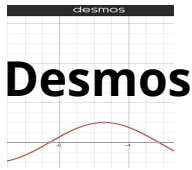
Java  
Applets,  
GeoGebra  
Applets

वेब टूल्स  
ऐपलेट

# टेक्स्ट टूल्स / इमेज टूल्स



Canva

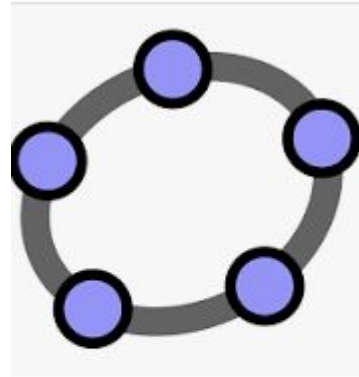


the Physics Classroom



openstax™ Access. The future of education.

# एनिमेशन, सिमुलेशन, इंफोग्राफिक्स आदि ....



GeoGebra  
Software :



2D COLLISION SHAPE EDITOR

PhysicsEditor

☛PocketLab NOTEBOOK

Students  
Log in and work on lessons

Teachers  
Log in or create an account

Grade K-5 6-8 9-12 ✓ Higher Ed Sensor Voyager G-Force Air Weather Thermo None



# Free Offline Recording Apps:



## Audacity:

- A powerful and open-source audio recording and editing software.
- Website: [Audacity](#)

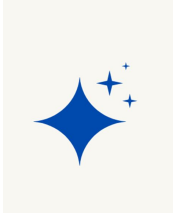
## Ocenaudio:

- A user-friendly, fast, and functional audio editor for Windows, macOS, and Linux.
- Website: [Ocenaudio](#)

## WavePad:

- An easy-to-use audio editor with a variety of features.
- Website: [WavePad](#)

# Free Online Recording Apps:



## Online Voice Recorder:

- Simple and user-friendly online voice recorder.
- Website: [Online Voice Recorder](#)

## TwistedWave Online:

- A browser-based audio editor that allows recording and editing.
- Website: [TwistedWave Online](#)

## Beautiful Audio Editor:

- An online audio editor with recording capabilities.
- Website: [Beautiful Audio Editor](#)





# Loom – Screen Recorder & Screen Capture



Search for people, tags, folders, Spaces, and Looms

Upgrade

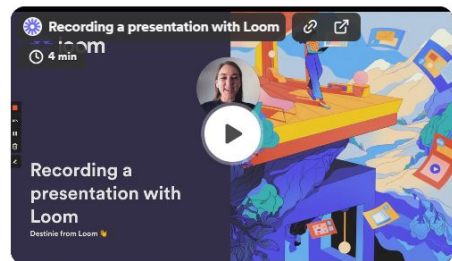
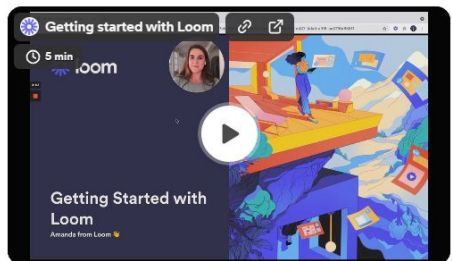
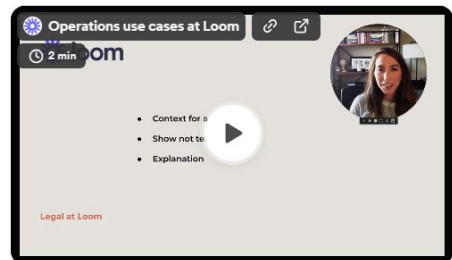
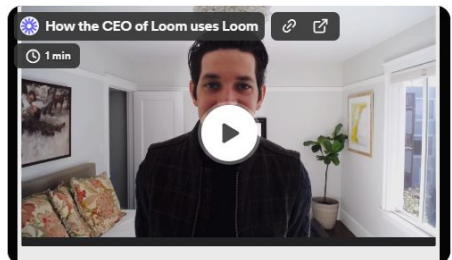
Get projects done in half the time by sending a loom instead of scheduling a "quick sync".

Record a Loom

Get started checklist

- Create an account
- Download Loom
  - Install the Chrome extension to record from your browser and to unlock integrations like Gmail and Jira.
  - [Install Chrome Extension](#)
  - [Download Desktop App](#)
- Record a video
- Share your video
- Get a view
- Invite a teammate

## Tips and tricks for recording a video





ADAPT

# Welcome to Adapt Learning

**Adapt is an open-source e-learning authoring tool that enables the creation of responsive, interactive content. While it's not physics-specific, it provides a flexible platform for educational content development**



## संदर्भ:

- <https://latex.codecogs.com/eqneditor/editor.php>
- <https://www.canva.com/templates/?query=PHYSICS>
- <https://www.desmos.com/calculator>
- <https://images.nasa.gov/>
- <https://www.physicsclassroom.com/mmedia>
- <https://www.overleaf.com/>
- <https://openstax.org/>
- <https://phet.colorado.edu/>
- <https://www.geogebra.org/?lang=en>
- <https://www.olabs.edu.in/>
- <http://www.algodoo.com/>
- <https://www.codeandweb.com/physicseditor>
- <https://www.blender.org/>
- <https://www.loom.com/looms>
- <https://www.adaptlearning.org/>

