Virtual Labs on DIKSHA



Central Institute of Educational Technology NCERT, New Delhi

Recommendation of NEP 2020











- Access to quality practical and hands-on experiment-based learning experiences to each student
- Virtual labs enhance actual laboratory experience
- Lab based e-resources help students in visualizing the concepts

Advantages of Virtual labs



- Available on DIKSHA for free
- Accessed anytime and anywhere
- Complements, supplements physical labs

Resources available on Virtual Labs

- Theory and Procedure concept related to the experiment
- Animation and Video- help in visualizing theoretical concepts
- <u>Simulation-</u> provides near to real experience of performing experiments
- Viva voce- self evaluation for learners

Virtual labs help learners in following ways

- perform experiments multiple times without consuming chemicals
- revise theoretical concepts
- obtain result of time consuming experiments
- analysis of results thereby inculcating logical thinking skill



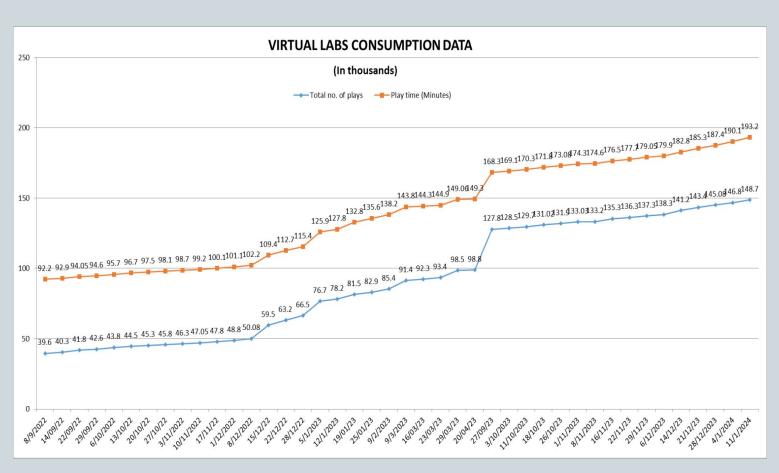
Pedagogical integration of Virtual labs

Virtual labs can help teachers in following ways:

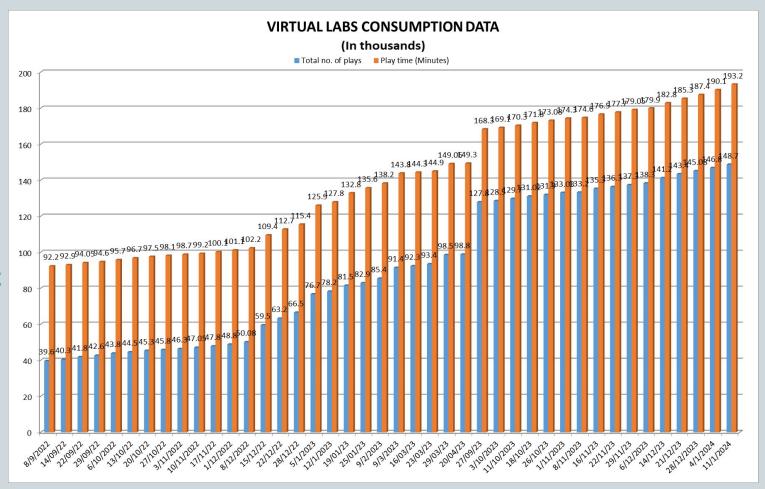
- Design lesson plan integrating Virtual labs
- Use Virtual labs to demonstrate experimental skills and help learners in developing such skills

Virtual Labs was launched on 29th July, 2022

Following data shows that large no. of users are taking benefit of available resources



The data
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resources



Steps to reach at desirable resource

URL: https://diksha.gov.in/

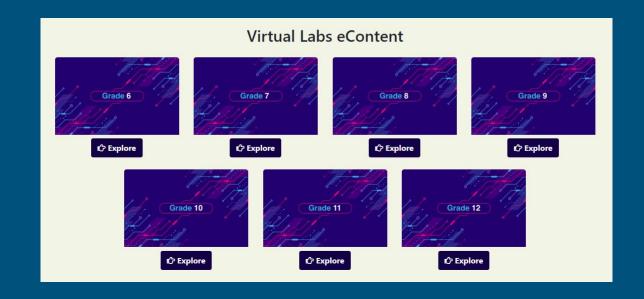
• Search https://diksha.gov.in/



• Scroll banners to find Virtual labs vertical and click on its "Explore" icon.



 Scroll down on the landing page of Virtual labs to reach eContent of classes 6-12.



Click on the "Explore" icon of the desirable class, select the medium of interaction, then choose a subject you wish to study.

Virtual Labs eContent









- ि हिन्दी Medium C English Medium
 - · Mathematics
 - · Science

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 - Mathematics
 - · Science
 - · English

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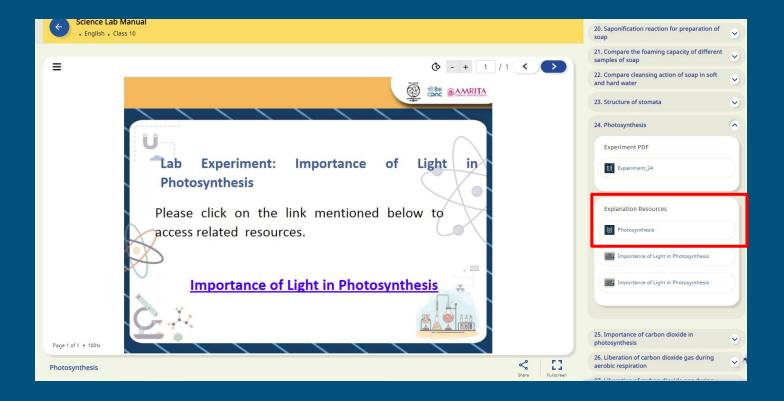


- € Explore
- ि हिन्दी Medium C English Medium
 - · Mathematics
 - Physics
 - Chemistry
 - · Biology
 - Compurer Science

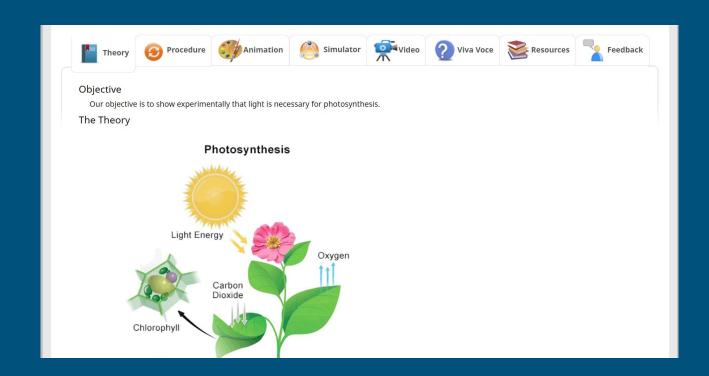


- € Explore
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 - Physics
 - Chemistry
 - · Biology

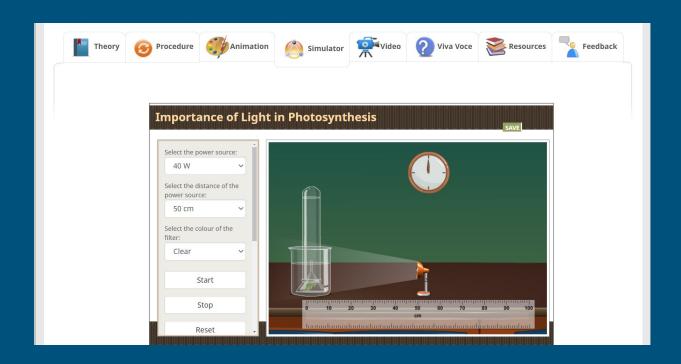
Click on the Explanation resource to reach the link for related resources



 Variety of resources will help you in your learning journey.



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Virtual Labs on DIKSHA provide self paced engaging learning experience