

A black and white photograph of a group of approximately 20 people seated in rows of office chairs, facing forward towards a presentation area. The room has large windows on the left and a wall covered in various posters and charts on the right. A blue rectangular overlay covers the bottom half of the image.

NTP: Imagining the possibilities

Technology Review – 8th Aug 2017

Five Use Cases

1

A day in the life
of a Teacher

2

Enabling
TEIs

3

Teacher
Professional
Development

4

Ensuring
Access to
12 M Teachers

5

Creation of
Content

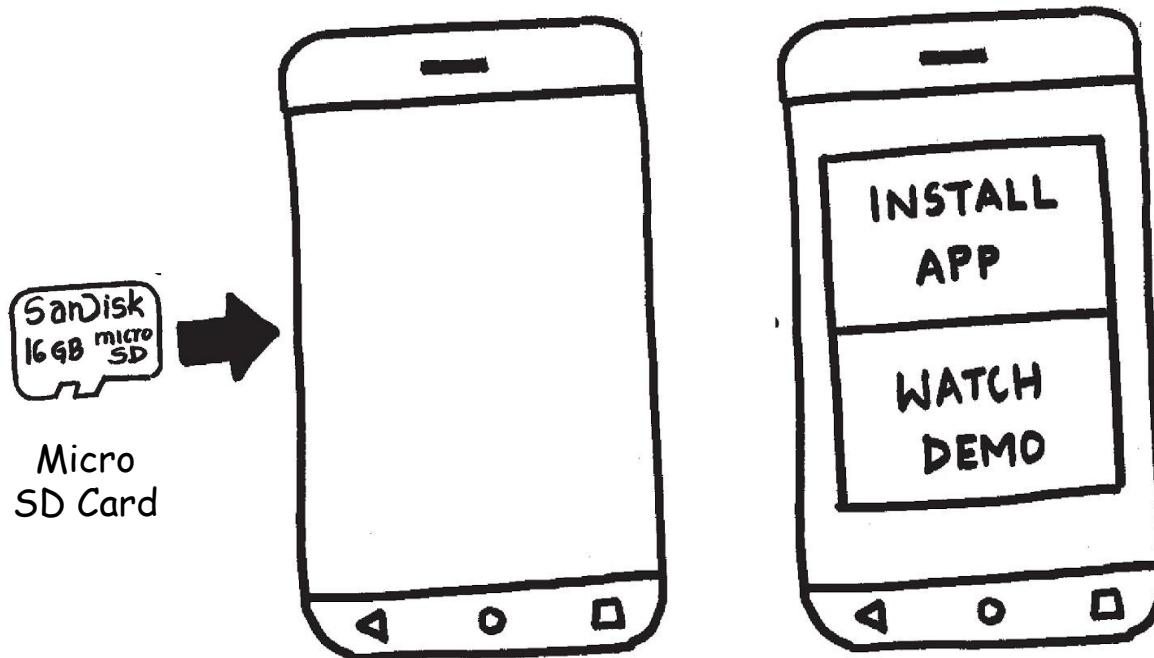
1

A day in the life of a teacher

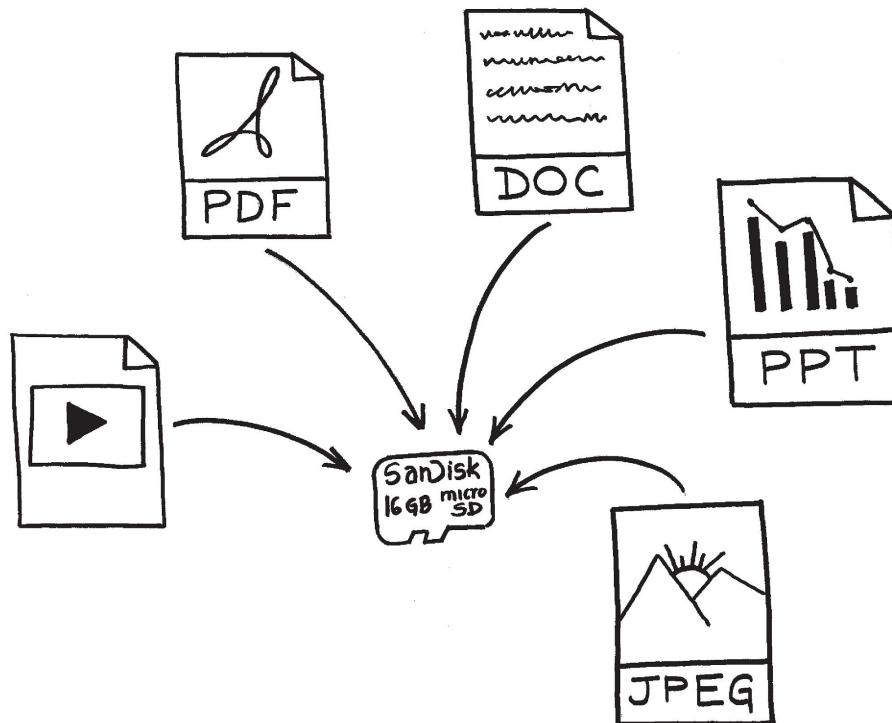
Teacher receives an SD card via post



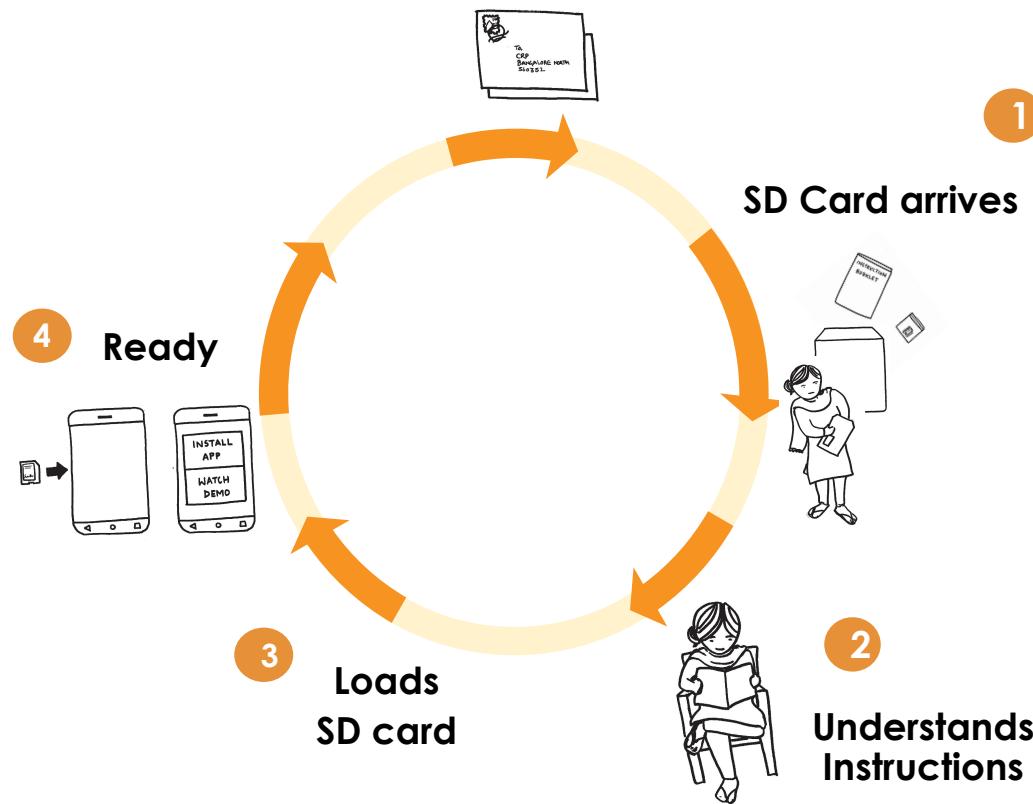
SD card has content linked to the year's curriculum



The curated content is of varied formats



This offline process can be a yearly cycle



The content can help the teacher refresh her concepts



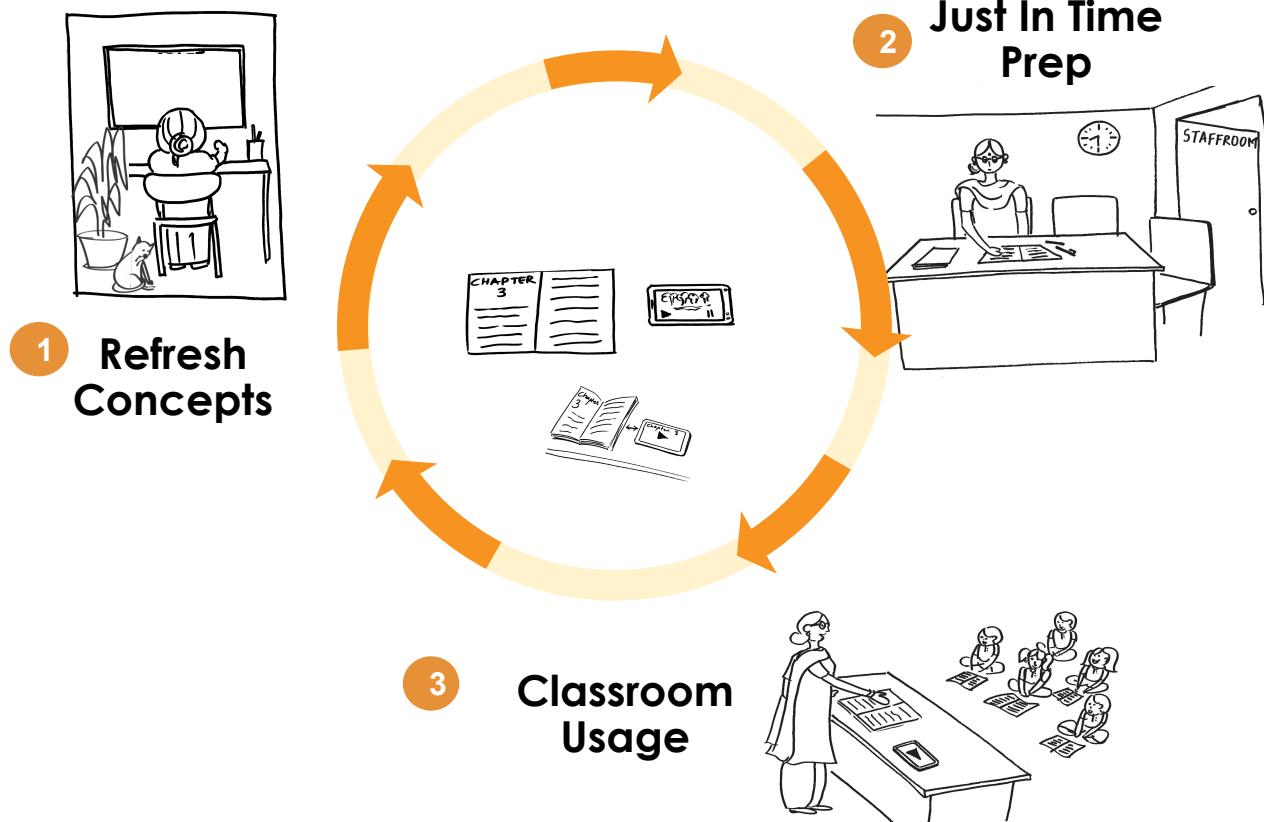
It also allows her to prepare for class ‘just in time’



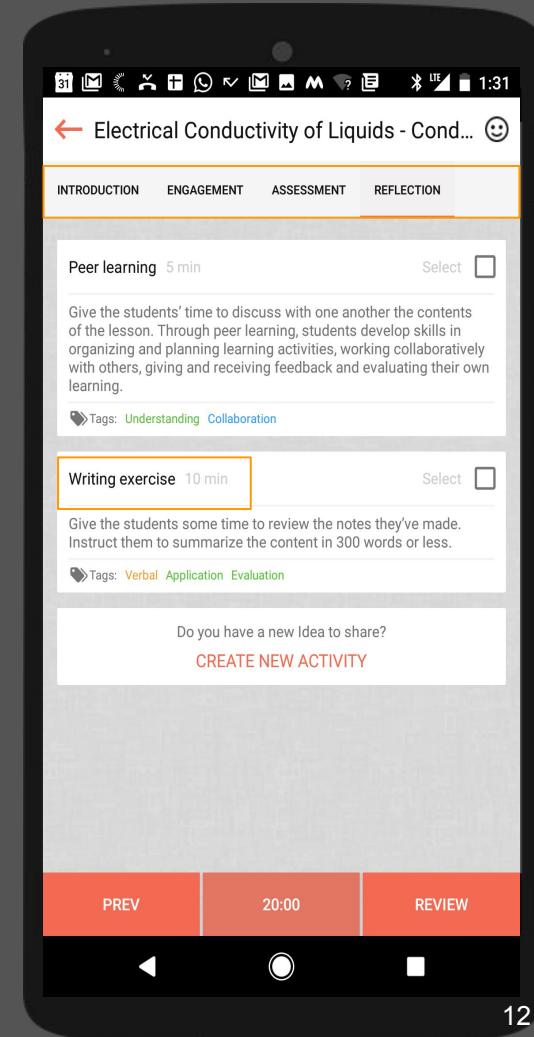
Classroom usage by teacher via her phone or tablet



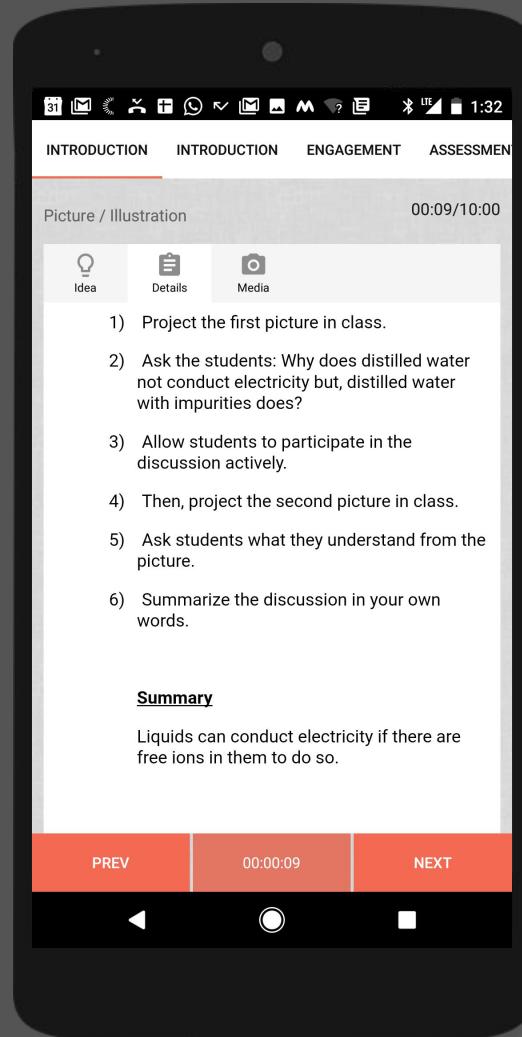
This cycle can become a daily habit for teachers



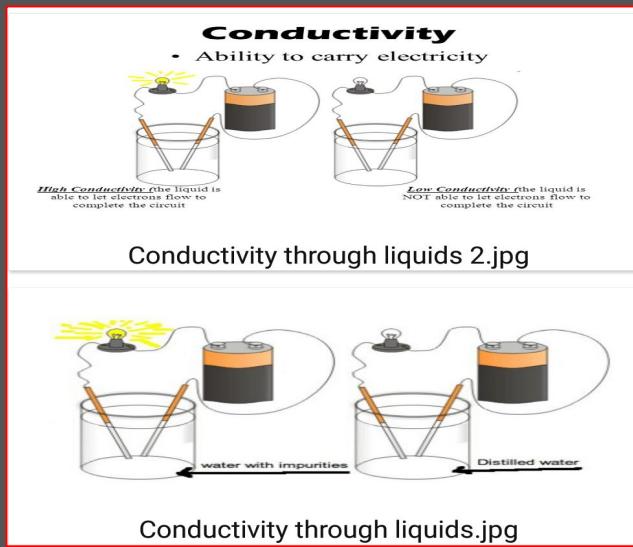
One of India's best private
lesson planning technology
and expertise - integrated
into NTP infra & made
available to all teachers



Contextual, expert advice at the teacher's fingertips



All additional material available in one place



Media

INTRODUCTION INTRODUCTION ENGAGEMENT ASSESSMENT

Picture / Illustration 00:09/10:00

Idea Details Media

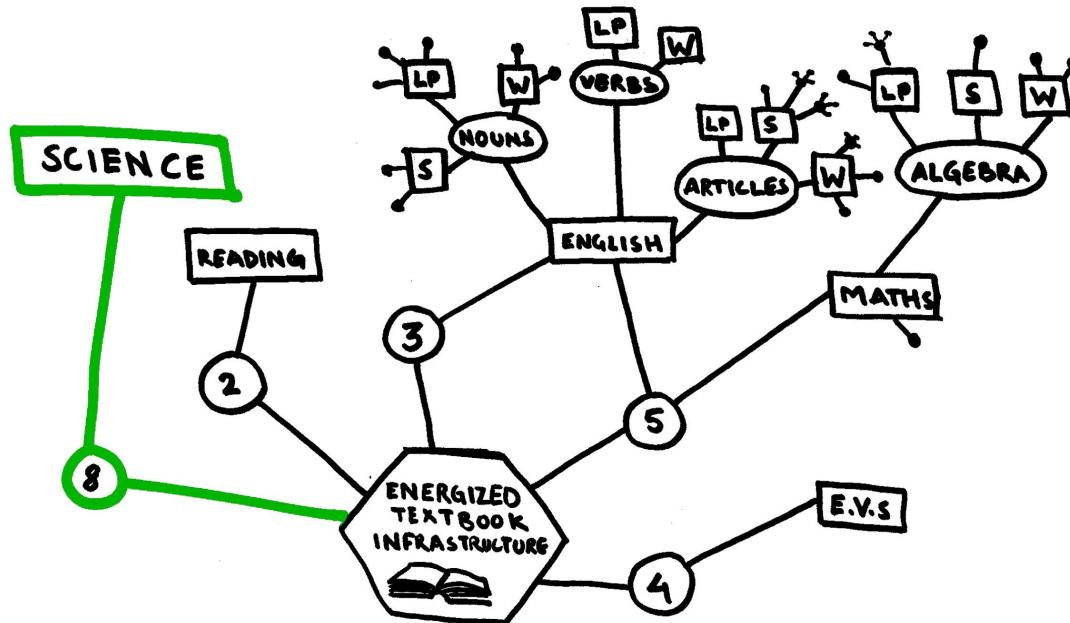
- 1) Project the first picture in class.
- 2) Ask the students: Why does distilled water not conduct electricity but, distilled water with impurities does?
- 3) Allow students to participate in the discussion actively.
- 4) Then, project the second picture in class.
- 5) Ask students what they understand from the picture.
- 6) Summarize the discussion in your own words.

Summary

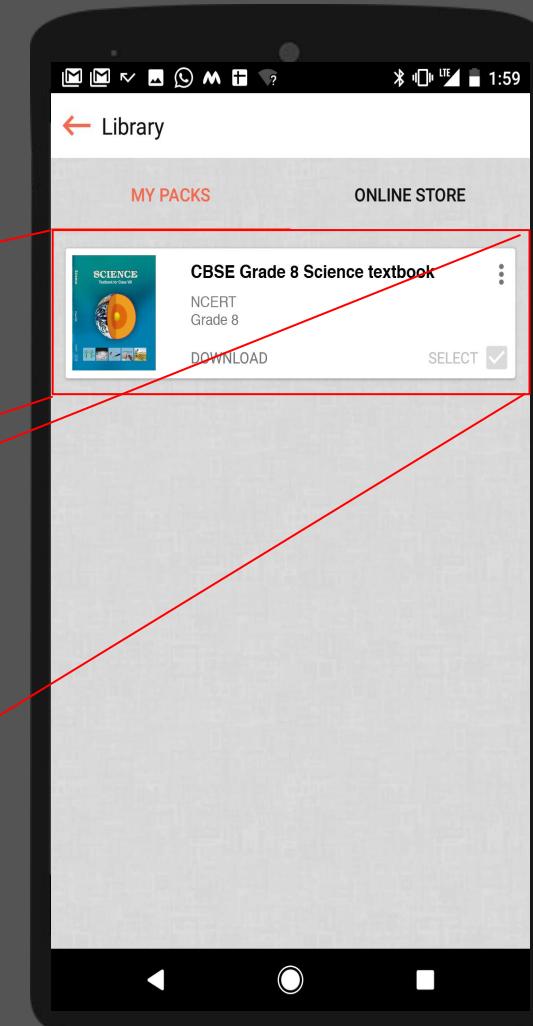
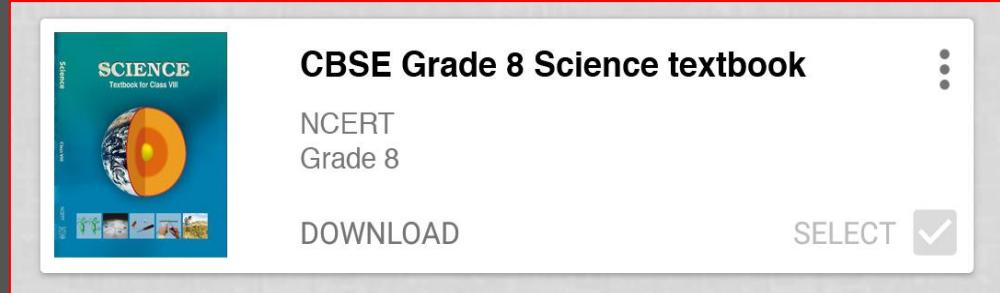
Liquids can conduct electricity if there are free ions in them to do so.

PREV 00:00:09 NEXT

A familiar map in the jungle of content



Teacher's GPS to navigate Textbook map



Taxonomy
Infra

Energized
Textbook Infra

Curation
Infra

Digital textbook creation as infra helps package relevant content around a chapter

The image shows a digital textbook interface on the left and a 'Lessons List' panel on the right. The textbook interface displays a chapter titled 'Place Value' under 'Number Work'. The 'Lessons' section lists several topics: 'Class 3: Number System: Place Value and Face Value', 'Class 2: Number System: Place Value and Face Value of Numbers', 'Using symbols to show 'smaller' and 'bigger'', 'The number before; the number after', 'Ascending and descending Order', 'The expanded form of a number', 'Biggest and Smallest numbers', and 'Writing numbers from 26 to 99'. A blue arrow points from the 'Place Value' section of the textbook to the 'Lessons List' panel. The 'Lessons List' panel shows a search bar at the top with the text 'place value'. Below it is a list of languages: English (selected), Gujarati, Hindi, Ho, Juang, Kannada, Marathi, Munda, and Odia. To the right of the language list are several resource cards: 'Addition Collection' (Collection | English, Kannada), 'To Discover Numbers' (Worksheet | English), 'Skip Counting' (Worksheet | English), and 'Place Values In...' (Worksheet | English). The bottom right of the panel has 'Cancel' and 'Add' buttons.

SCERT can link all the resources relevant to the grade and subject directly to the textbook.

'Extending the Textbook' - TN leading the use case

The image shows a mobile phone displaying a digital extension of a textbook page. A red circle highlights a QR code in the top-left corner of the textbook panel. A red arrow points from this QR code to the mobile screen, indicating the connection between the physical book and the digital extension.

Textbook Panel:

4. மல்லிவைக் காலனம்

இன்று முதல் தோசைக்கு சர்க்கரை இல்லை

(செந்தில் காலைச் சிற்றுண்டிக்காக மல்லிவைக் காலனம் சென்றால் சாப்பிடுவதற்கு இரண்டு தோசை கொண்டுவரக் கொண்ணான்.)

செந்தில் : ஜூயா, தோசைக்குச் சர்க்கரை கொண்டு வாருங்கள்.

கடைக்காரர் : தமிழி! நின்கள் அறியில்லை பல்வையைய் பார்க்கவில்லையா? இன்று முதல் தோசைக்குச் சர்க்கரை இல்லை, என்று எழுதி வைத்துள்ளோமே!

செந்தில் : ஜூயா, அறியில்லைப் பல்வையைப் படித்தேன். முதல் தோசையைச் சாப்பிட்டு விட்டேன். இரண்டாவது தோசைக்குத்தான் சர்க்கரை கேட்கிறேன்.

கடைக்காரர் : தமிழி, நின்கள் சொல்லது ஒன்றும் புரியவில்லையே!

Mobile Screen:

நூல்

4:45

(செந்தில் காலைச் சிற்றுண்டிக்காக மல்லிவைக் காலனம் சென்றால் சாப்பிடுவதற்கு இரண்டு தோசை கொண்டுவரக் கொண்ணான்.)

With newer tech, experience can become more engaging

இவ்வட்ட வெப்பநிலை தோலில் உள்ள வியர்வைச் சுரப்பி, சிறுந்தகம், நுழையீரல், இரத்தும் மூலம் இலைநிறுத்தப்படுகிறது.

கோவைக்காலத்தில் உடலைக் குரிசியிலர்களைவதை அதிகமாகச் சென்று வெப்பம் வெளியீற்றுவதை இல்லாமல் கூட இருந்து விஷங்களை அடிக்கின்றில் செலுத்த வேண்டுமென்றும், அதிகான நீர் விஷங்கள் வெளியீற்றுவதை வேண்டும் சிறநூர்க்கு அதை விஷங்களை வெளியீற்றுவதை.

குளிர்காலம் வர்க்கில், மிகவும் குறைவான நிறைவேலை செய்தியிருப்பதை உடல் வெப்பநிறைவேலை உயர்த்துக் கொண்டிருக்கிறார்கள் என்று நிறைவேலை விரிவாக்கும் அடிப்படைகள் குறைவான நிறைவேலை உயர்த்துவதன்மூலம் உடல் வெப்பநிறை உயர்த்துகிறது. ஆனால் சிறநார்கம் அதிகானா சிறநார்க வெப்பநிறைகள்

பாடுமூட்டு சிவபூர்ணம் தலைவராக விரிவு அதிக நிமியாகு சோனின் என்றும் நிமிய அதிக அளவு ஆக்டிலீனை எடுத்துச் செல்வதற்கு பாடுமூட்டுகளின் இருத்தச் சிவபூர்ணம் உட்கரு இல்லை. இவ்விடம் ஹிப்பாக்ஸோனால் இருப்பப்பட்டிருள்ளது.

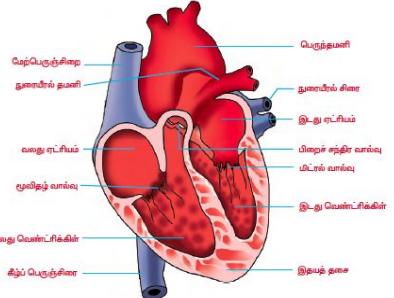
5.5. மனிதனின் இரத்தச் சமூக்கி மண்டலம்

வினாவியல் ஹராஸ்வி (1628-ஆம் ஆண்டு) என்ற அவர்களினேய மருத்துவம் மகிழ்ச்சிலின் இருத்தச் சொல்லுகிறது.

கேள்வி 5.2

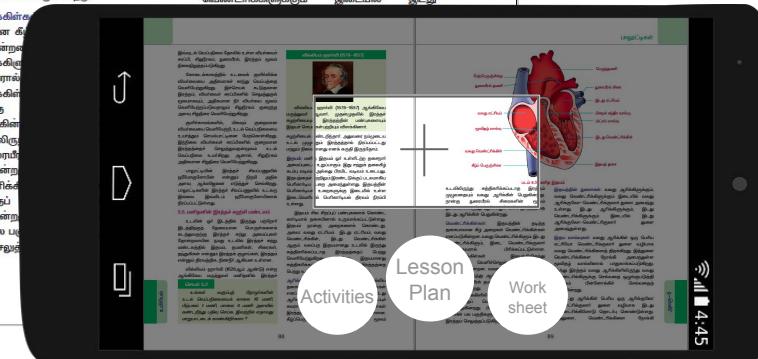


வினாக்கள் முதல் வருடம் (1578–1657)



படம் 5.3 மனித இடையம்

வடிவிலிருந்து கந்திமிகூப்பான் இருந்து புழுவதற்கும் வளவு அரிச்சுகள் பெறுவதற்கு நான்கு நூல்கள் சொன்னால் மூலம் நூலாக விடுவதற்கு அதைப்படியாக இருந்ததை விட அரிச்சுகள் பெறுவதற்கும் இருந்தின் துளைகள் வலு அரிச்சிகிருக்கும் என்று பொலோரிக்கல்லாறு இலையில் பெறுவதற்கு அரிச்சுகள் பெண்டிலிருந்து துளை அடியடையாக இரு அரிச்சிகிருக்கும். இது மேலூடு சிரிக்கும்பட்டி மூல பிள் கூட செய்து



பாலூட்டிகள்

Platforms evolve by absorbing emerging technologies

Enabling Teacher Education Institutes (TEIs)

2

All Courses created by TEIs will be added to NTP

Courses Who are you looking for?   

Home Courses Resources Community Profile



Bombay Teachers'
Training College

Name of the course

Branch name Author name

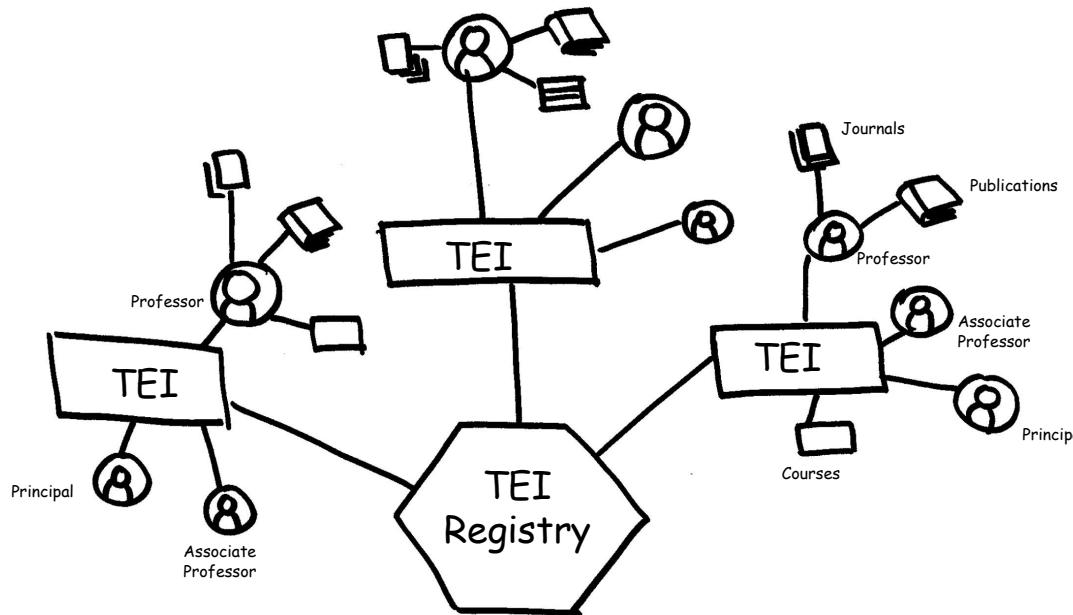
Add Content pieces

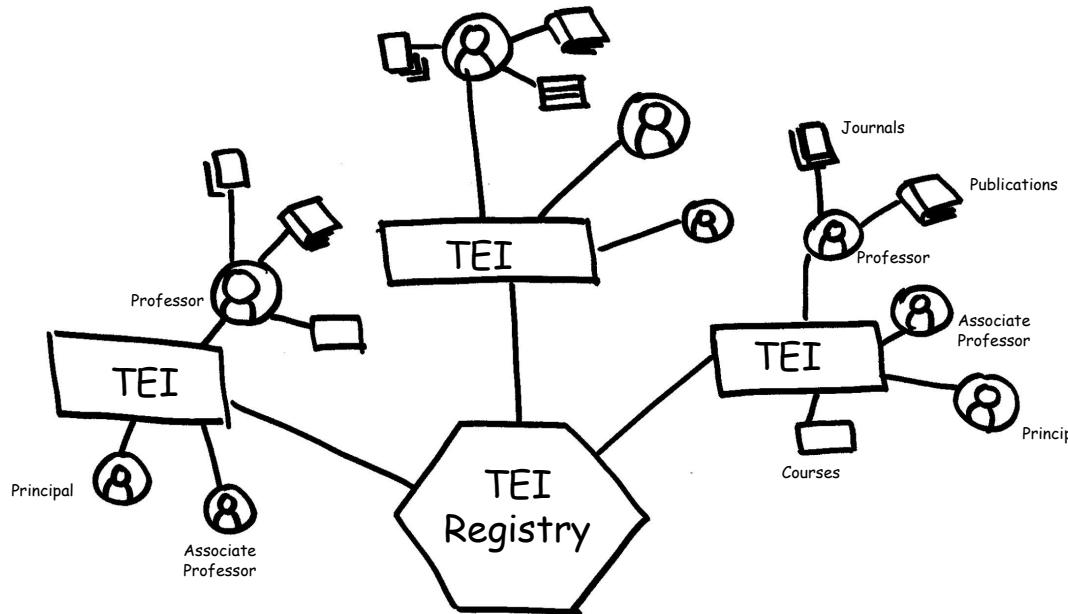
* Is a required field

OPTION 2 **PROCEED**

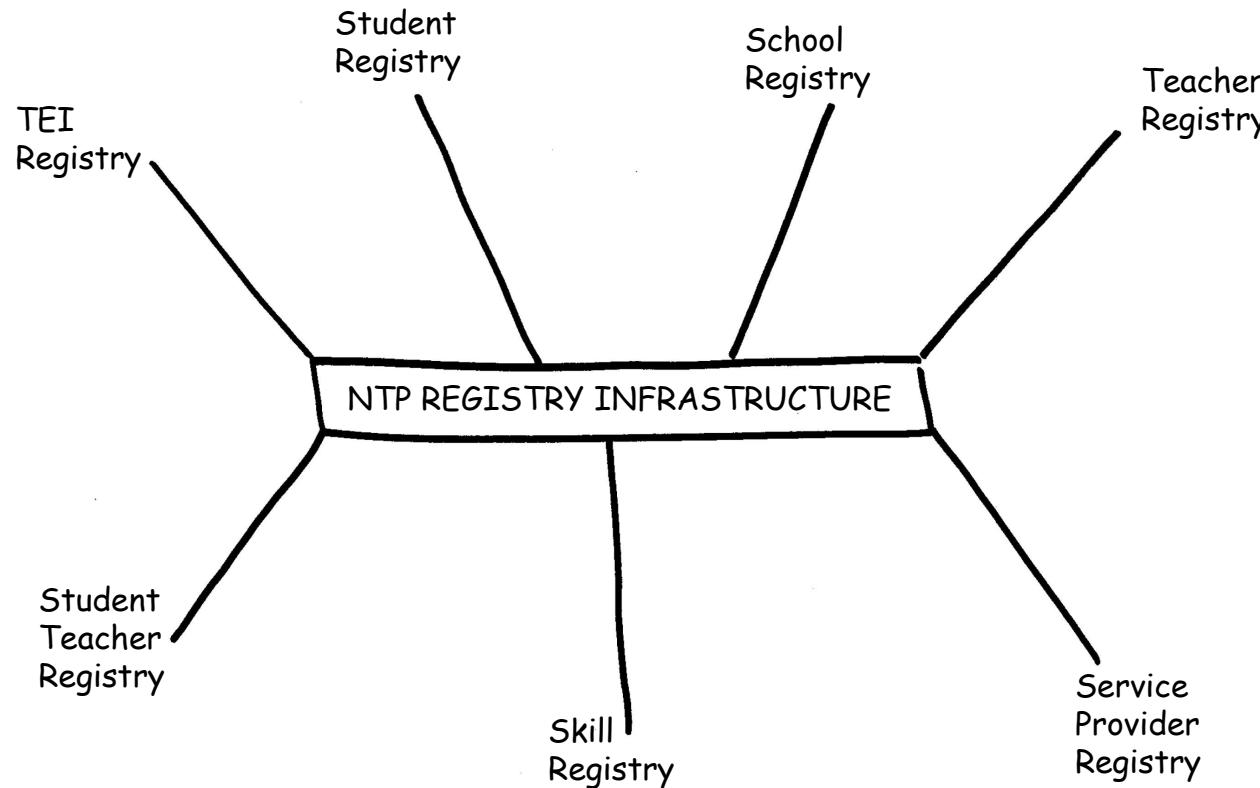
NTP provides a unified TEI registry ...



... and log-in authentication for other registries



NTP infra can also help create multiple, linked registries



Course creation infra for teachers

The image shows two screenshots of the National Teacher Platform. The left screenshot is a smaller inset showing a teacher's profile and a 'Courses created' section. The right screenshot is a larger main view of the same profile page.

Profile View (Right Screenshot):

- User Information:** Harish Bookwalla, Jawahar Vidya Mandir, Pune. Username: harish@tci, TCI.
- Courses Created:** A grid of four cards:
 - Children with special needs** (with a star icon)
 - Classroom Engagement**
 - Working with slow learners** (with a location pin icon)
 - Maharashtra Teachers Association**
- Question Feed:** An announcement about exams followed by a question from Phanu Bhushan Barjope.
- Calendar:** A weekly calendar from June 20 to July 15, with a note for June 19.
- Resources/Files:** 15 files, including a file named 'filename.mp4'.

Courses Created View (Inset Screenshot):

- Harish Bookwalla Profile:** Shows a photo, name, and affiliation.
- Courses Created:** A grid of three cards:
 - Classroom Engagement**
 - Working with slow learners**
- Question Feed:** An announcement about exams followed by a question from Phanu Bhushan Barjope.
- Calendar:** A weekly calendar from June 20 to July 15, with a note for June 19.
- Resources/Files:** 15 files, including a file named 'filename.mp4'.

Central teacher registry system gets updated with the progress teachers make and courses taken by them

Badges bring digital trust to credentials

The image shows a screenshot of the National Teacher Platform's Content Library. The top navigation bar includes the platform logo, 'Courses', a search bar, and user profile icons. The main content area displays a grid of course cards under two categories: 'Classroom management' and 'Behavioural Psychology'. Each card features a green badge with a white star and checkmark icon, indicating approval by NCTE. The cards include course titles like 'Understanding Child Behaviour', 'Working with slow learners', 'Active students in class', 'Classroom Engagement', 'Behavioural', 'Children with special needs', 'Into a child's Mind', and 'Interacting with young students'. Below the grid is a 'View All' button. A large red box highlights the 'Classroom Engagement' card. Another red box highlights the 'Children with special needs' card. A third red box highlights the 'Behavioural' card. In the bottom left corner, there is a large image of three children looking at something off-camera, with a green badge icon overlaid. In the bottom right corner, there is a large green badge icon with a white star.

Content Library

Classroom management

Understanding Child Behaviour

Working with slow learners

Active students in class

Classroom Engagement

Behavioural Psychology

Behavioural

Children with special needs

Into a child's Mind

Interacting with young students

View All

Children with special needs

Access to content that is approved by NCTE

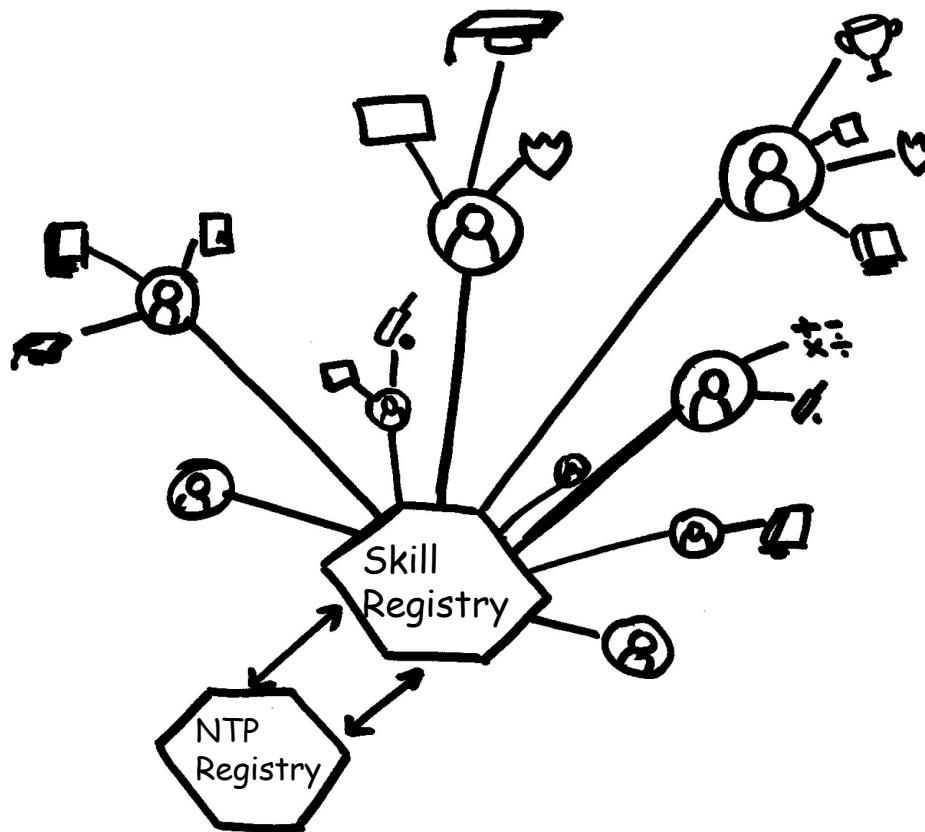
Badges can be given to students, teachers & institutions

The screenshot shows a course page for "Behavioural Psychology Part I" under the "Educational psychology" category. The course has 2 creators: Hari Dogra and Aram Bharadwaj. A message通知 says "Your assignment has been graded!" with a grade of "A+" and an "All-Star" badge. The badge is yellow with three stars and a ribbon banner below it. Below the badge, there's a link to share via clipboard: "Link copied to clipboard" and the URL "http://www.link.com/coursename/34hu876erQE90566". There are also sharing icons for Facebook, Twitter, Google+, and LinkedIn.

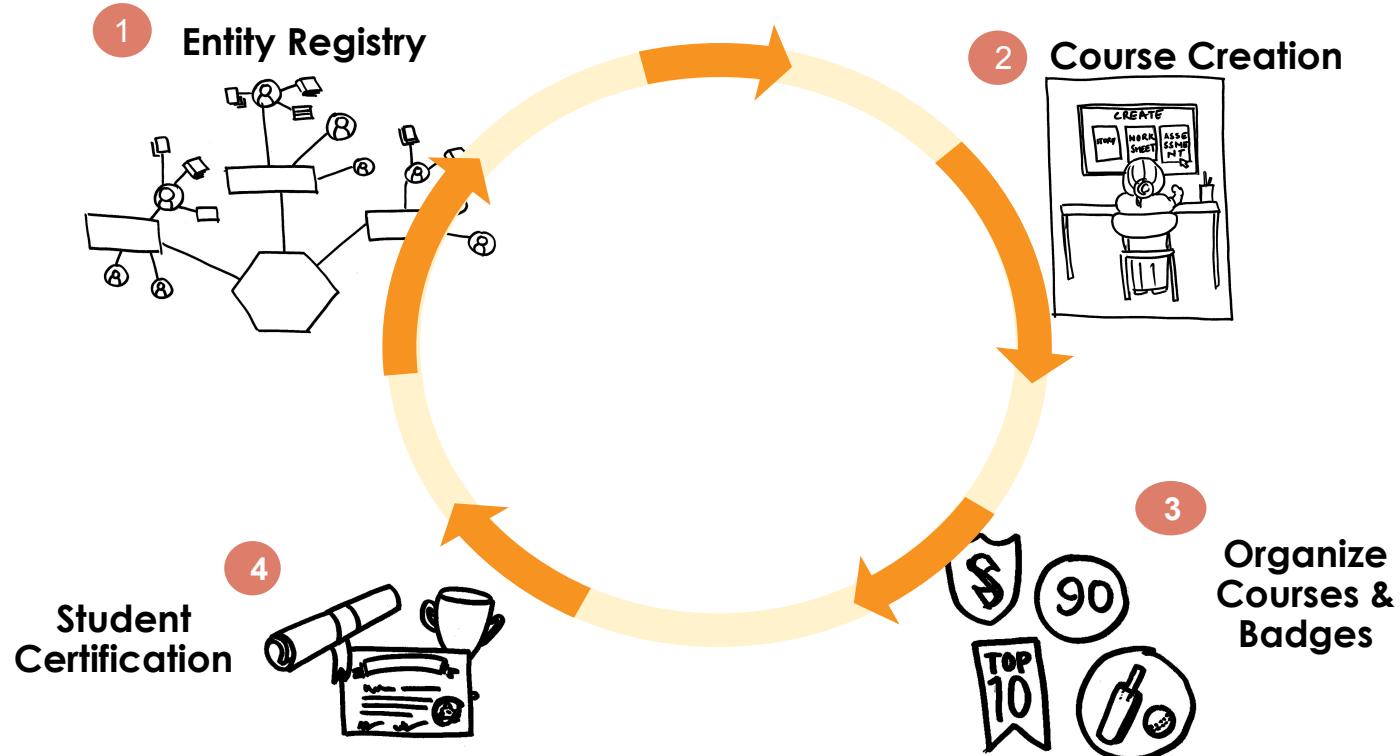


Badging creates
accountability and
transparency

Skill registry of students can also be created



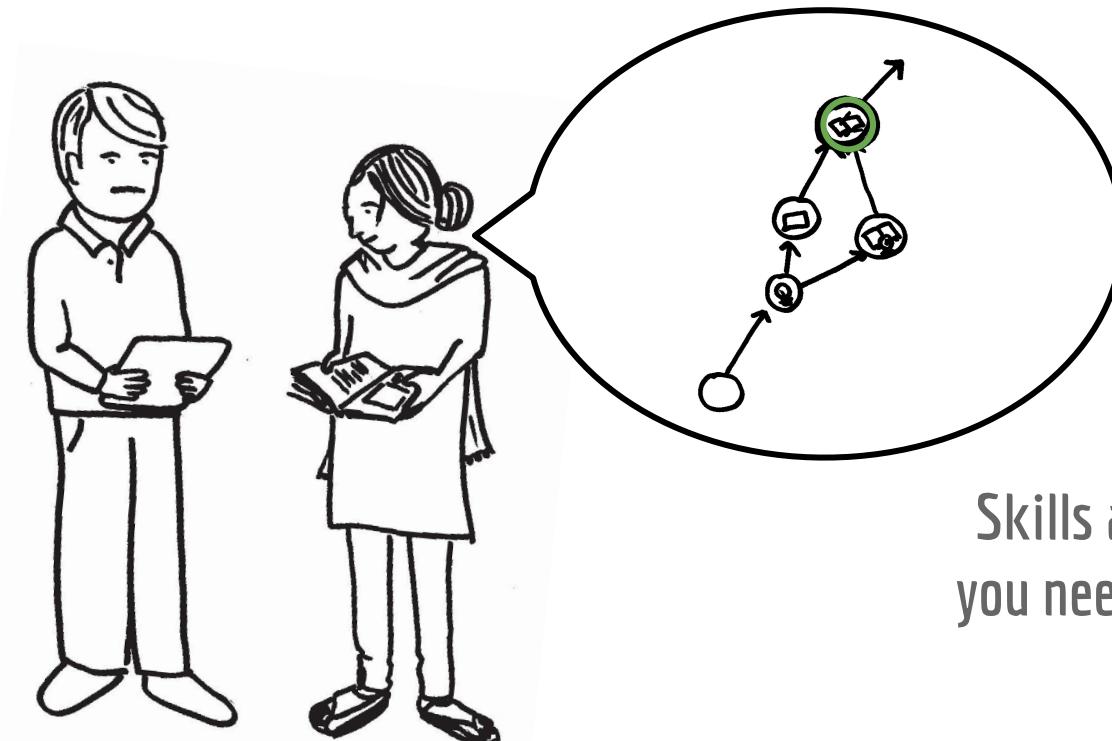
A repeatable cycle for TEIs



Teacher Professional Development

3

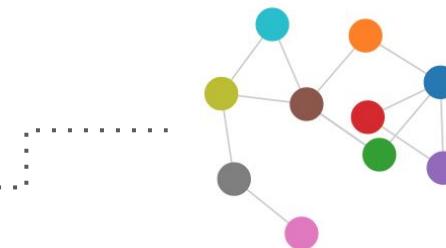
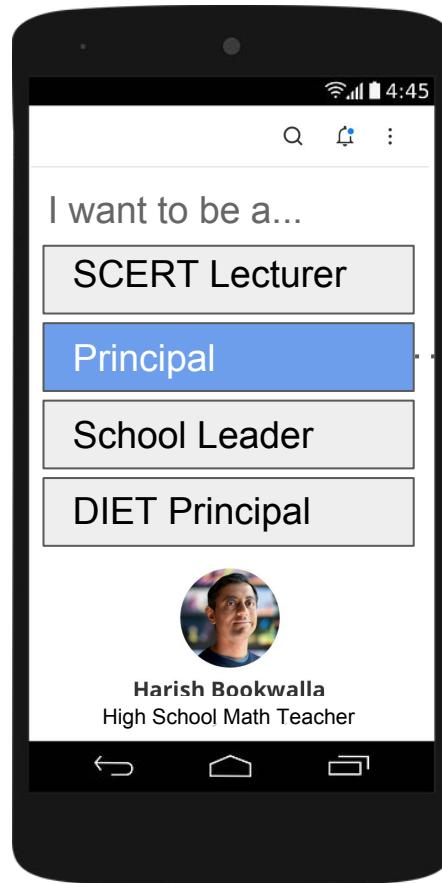
Teachers develop their professional skill map



Skills and courses
you need to develop

Teachers choose training based on skill gaps, goals and courses available

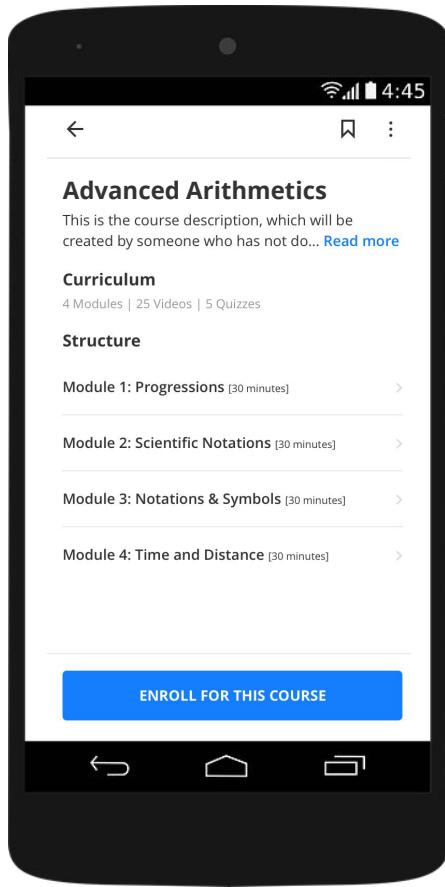
- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded
- Recognition
- Identify gaps



Skills and courses
you need to develop

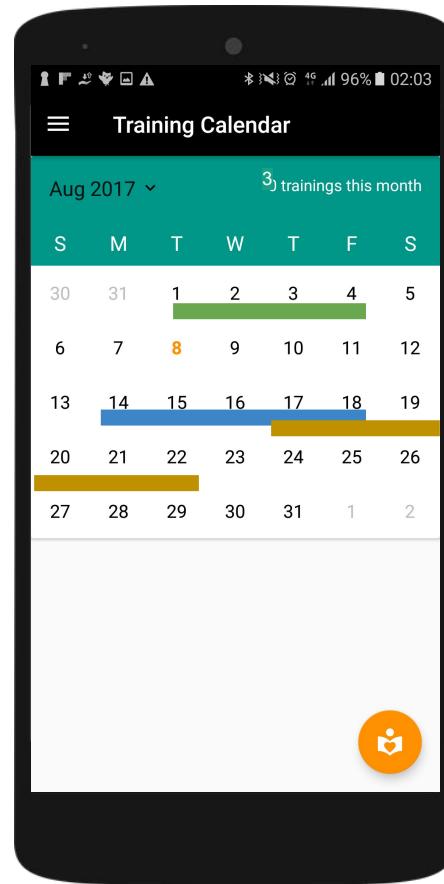
They can select the relevant course for training

- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded
- Recognition
- Identify gaps



Teachers can see the schedule of trainings, courses & evaluations

- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded
- Recognition
- Identify gaps



Teachers can take training as per the schedule

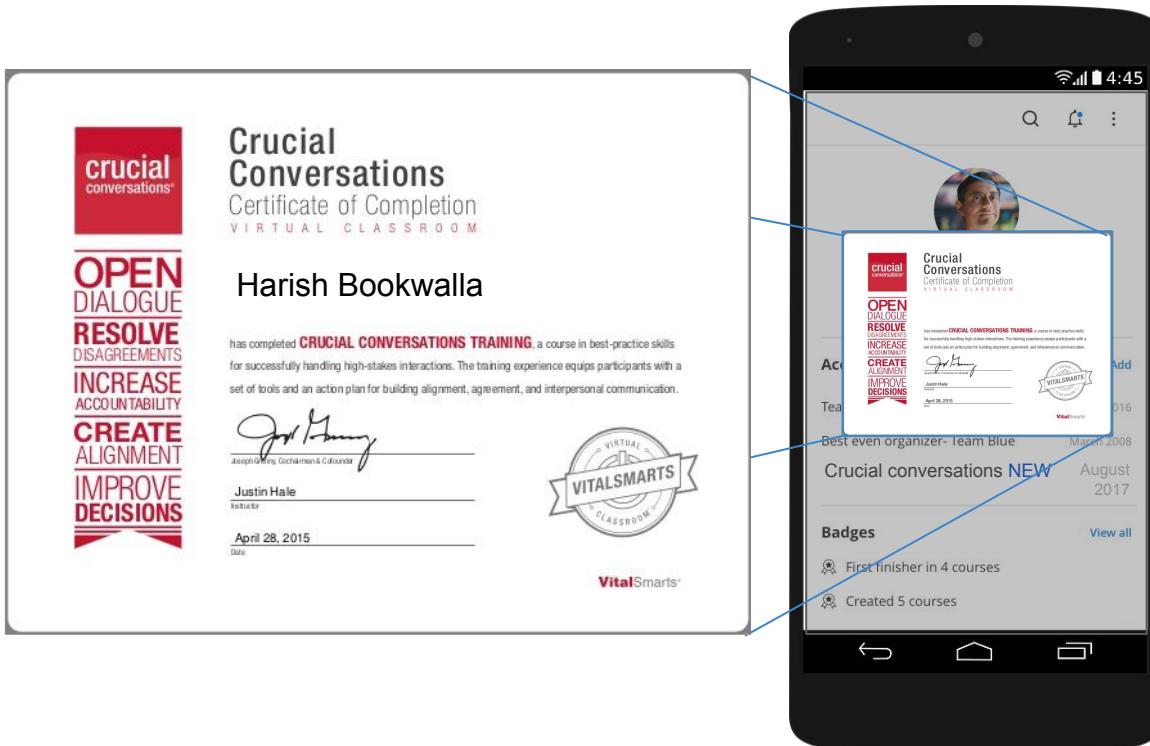
- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded
- Recognition
- Identify gaps



Training at Nandurbar, Maharashtra.

Teachers get digitally authenticable certificates

- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded
- Recognition
- Identify gaps



Skills of teachers are digitally updated

- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded**
- Recognition
- Identify gaps

National Teacher Platform
Department of School Education & Literacy
Ministry of Education, Government of India

Profile

Home Courses Resources Community Profile

Harish Bookwalla
Jawahar Vidya Mandir, Pune

TO EDIT FOLLOW SEND EMAIL

Description
Nam porttitor blandit accumsan. Ut vel dictum sem, a pretium dui. In malesuada enim in dolor euismod, id commodo mi consectetur. Curabitur ut vestibulum nisi. Nullam vehicula nisl velit. Mauris turpis nisl, molestie ut

Experience
All subjects class teacher
Balamandir, Vadgaon JUN '10 - JUL '16 (6 YRS)
Chemistry teacher - Std VII & VIII
Balamandir, Vadgaon JUNE '10 TO JULY '16
Responsibilities included many organizational activities am porttitor blandit accumsan. Ut vel dictum sem, a pretium dui. In malesuada enim in dolor

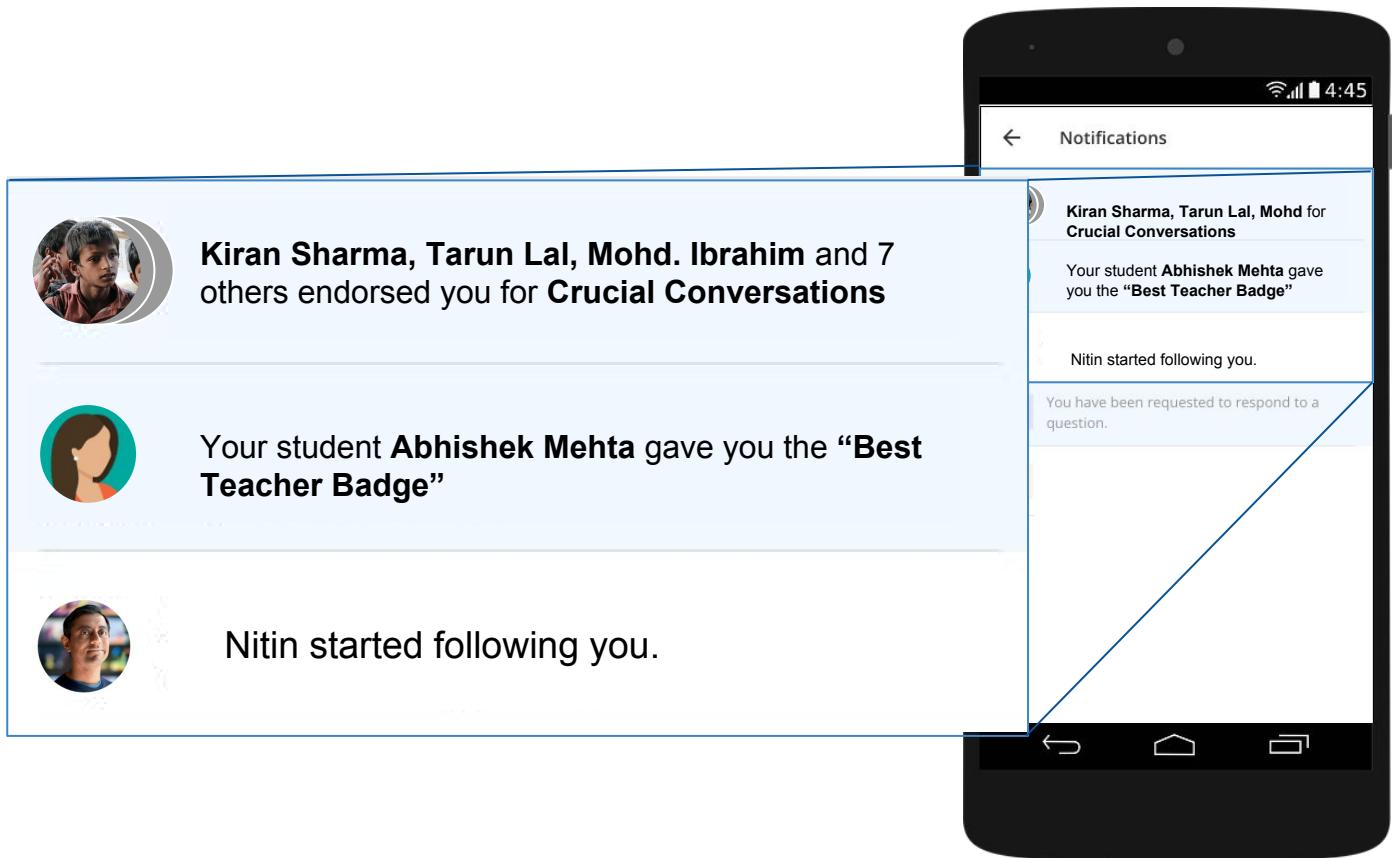
Skill Tags
Leadership | 24
Mentor | 4
Advanced Chemistry
Mastery in Organic Chemistry
View more ▾

Contributions 15 files
Filename.mp4 4 June '17
Filename.pdf 4 June '17
Organic Chemistry for Std VII ★★★★ (2,367)
Organic Chemistry for Std VII ★★★★ (2,367)

Accomplishments + Badges
Teacher of the year June 2016
Best even organizer - Team Blue March 2008
First finisher in 4 courses
Created 5 courses
Last logged in: 10 Jul '17

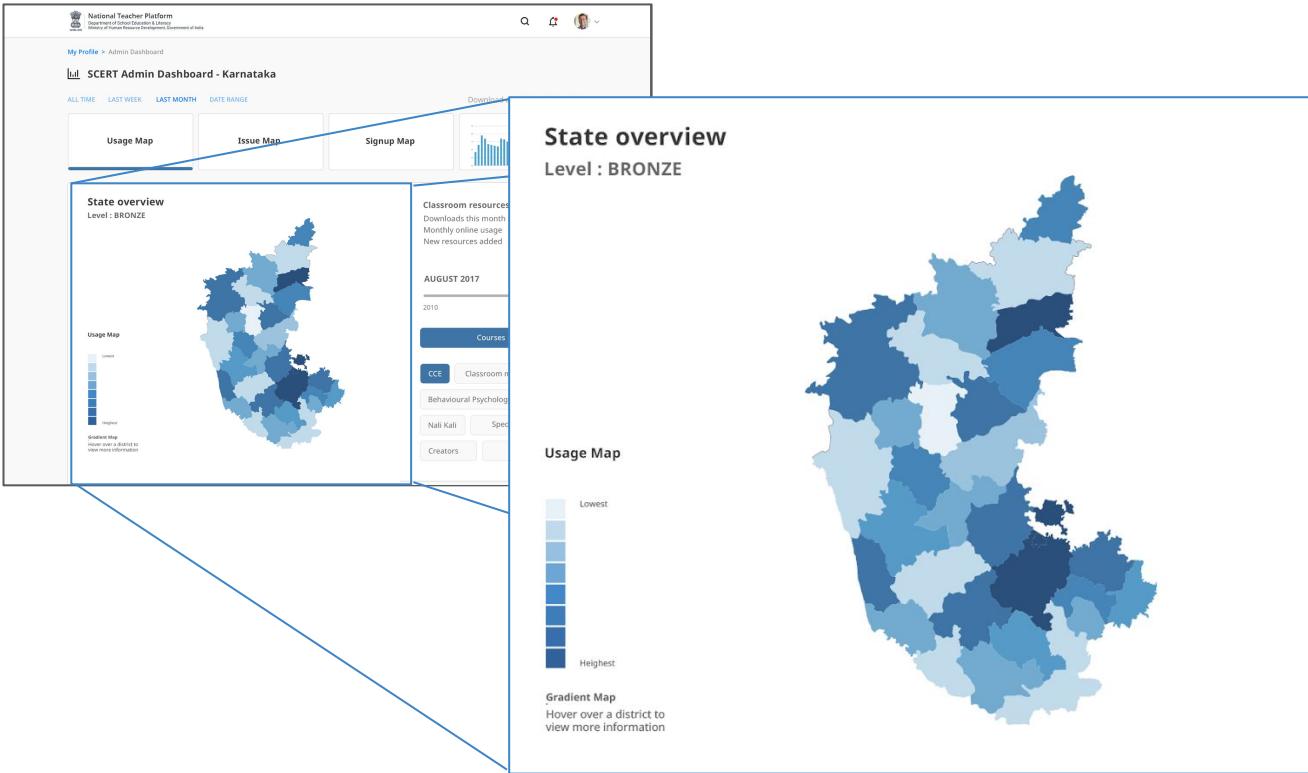
Digital badges and endorsements also possible

- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded
- Recognition
- Identify gaps

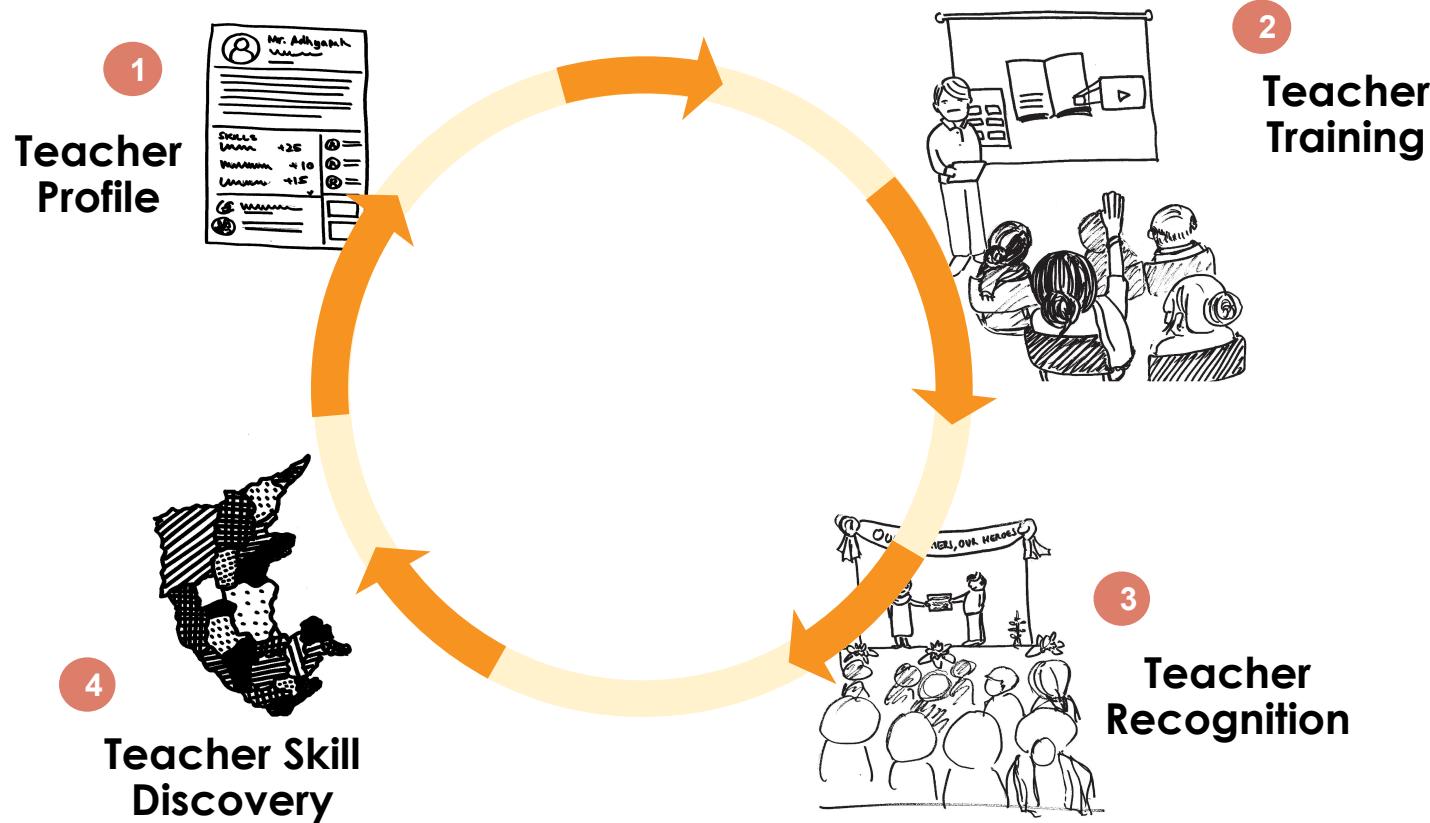


Skill gaps can be aggregated by geography, age etc.

- Choose Training
- Select Training
- Schedule Training
- Take Training
- Certify
- Skills Upgraded
- Recognition
- Identify gaps**



Teacher Professional Development made efficient

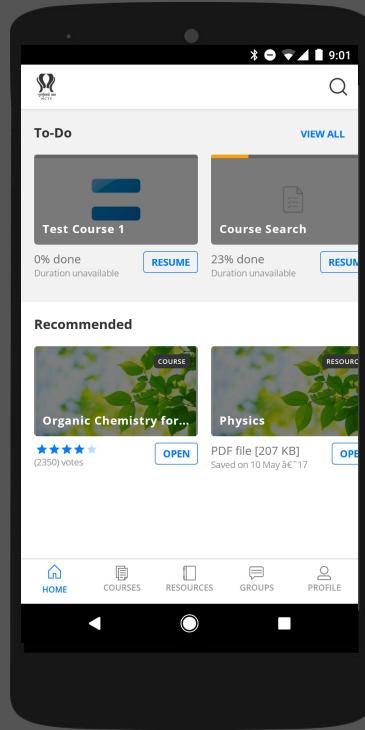
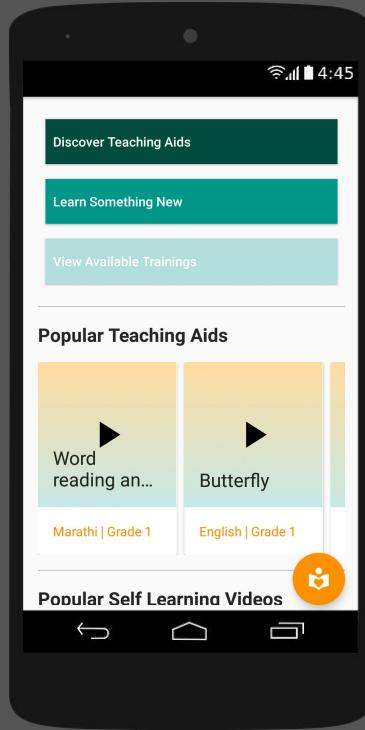
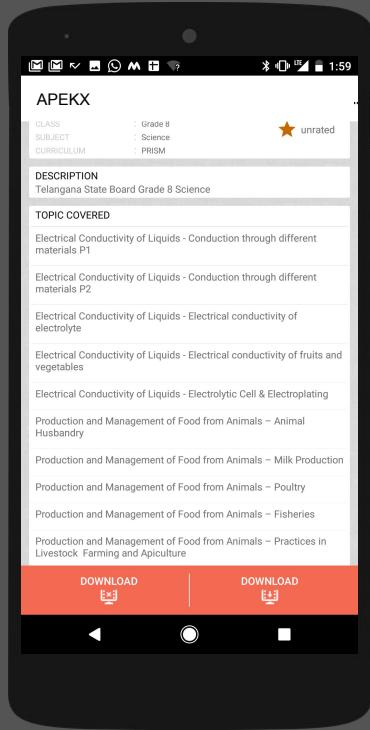


Ensuring Access to 12 Million Teachers

4

The scale and diversity in India pose unique challenges which can be addressed through the NTP tech platform

One app for all



While states have their individual identity, they are all built on the NTP Infra

Flexibility for content and branding – like in AP, MH & TN



National Teacher Platform

Powering digital infrastructure for education



TNNTTP
on Diksha



APEKX
on Diksha



MITRA
on Diksha

AP is linking its website to the NTP website

 **ANDHRA PRADESH
E-Knowledge eXchange**
Education matters any time any where

Sri N.Chandrababu Naidu
Hon'ble Chief Minister

Sri G.Srinivasa Rao
Hon'ble Minister for HRD

Commissionerate of School Education
Government of Andhra Pradesh

[Home](#) [About us](#) [Experts](#) [Teachers](#) [Students](#) [Useful Links](#) [Repository](#) [Contact us](#) [Subjects](#) [Reports](#) [Trainings](#) [Teacher Join](#) [Student Join](#) [Login Zone](#)

 Articles  Books  Lesson Plan  Forums  Research Work  Materials

The Seeds that Spread across the network
Establish Construction of Knowledge

Welcome to Andhra Pradesh Subjects Forum ప్రారంబించు విషయ సంపుటి

Hi Everyone, Click for Certificate of Registration

Welcome to AP Subjects forum Online Services, in pursuit of Quality in Secondary Education, the School Education A.P has carried many interventions, among them professional development of the teachers, use of technology for advancement of pupils learning are the major concerns of CSE A.P Amaravathi. In this direction the CSE A.P has thought of launching quality circles in every curricular subject in the form of APeKX. Thus the Andhra Pradesh e-Knowledge eXchange is conceptualized under CSE A.P. For wider dissemination of services of forum to the teachers and students".

[Read More](#)

Announcements

English Grammar and Style Online

One website for all

State Teachers Management Board

[Login / Sign Up](#)

[Home](#) [Courses](#) [Resources](#) [Community](#) [Profile](#) [Q](#)



Education for all organization came into existence in the year 1966, has been conducting SSLC and other examinations. Every year the student strength is increasing tremendously.

Every year in April about 8.50 Lakhs & in June 1.50 Lakhs students are appearing for the SSLC examinations.

The board has decided to improve the evaluation system and the

[Read more >](#)

Featured Articles [View All](#)



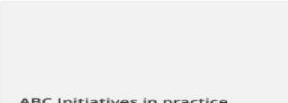
[Enrollment info for life skill training](#)



[Polytechnics information June 2017-2018](#)



[C-15 Academic Inspection Formats Annexures 1,2, 3 and 4](#)



[ABC Initiatives in practice](#)

Announcements [View All](#)

[Exam dates announced >](#)
I will write after this. This is the 2nd paragraph, which can lead to a long...

[Exam dates announced >](#)
I will write after this. This is the 2nd paragraph, which can lead to a long...

[Exam dates announced >](#)
I will write after this. This is the 2nd paragraph, which can lead to a long...

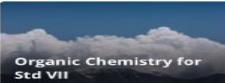
[Exam dates announced >](#)

Calendar

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

● 16th June - Teacher's test results to be declared

Featured Courses [View All](#)



[Organic Chemistry for Std VII](#)

Here is a 2 line description about this course.
 (2,367)



[Organic Chemistry for Std VII](#)

Here is a 2 line description about this course.
 (2,367)

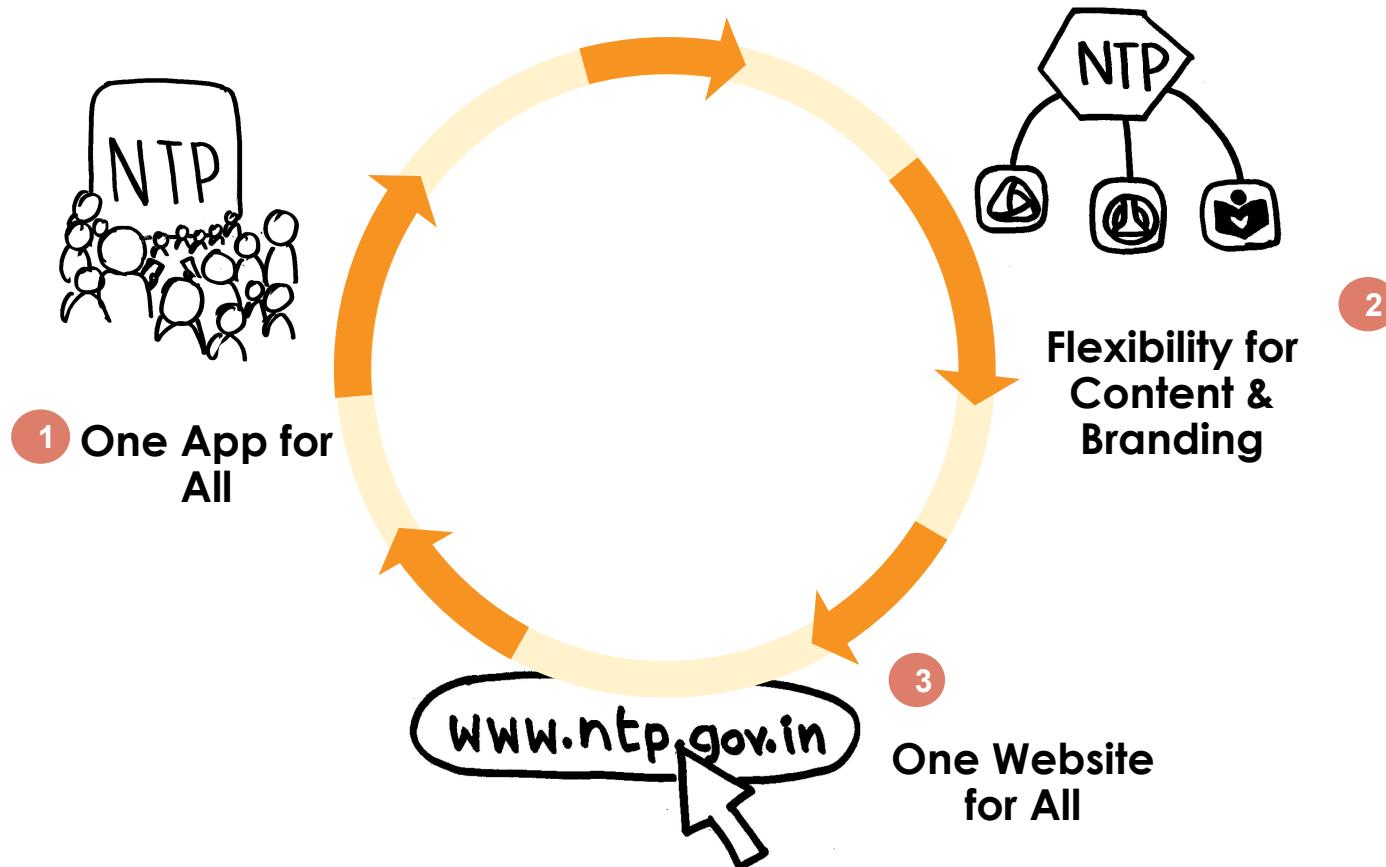


[Organic Chem Std VII](#)

Here is a 2 line description about this course.
 (2,367)

47

Ensuring access to 12M teachers



Creation of Content

5

Collaborative content creation infra

1_Mar_11_प्राण्यांच्या गमतीजमत

Edit Lesson Details

Add Activity

A toolbar with various icons (eraser, text, image, etc.) is highlighted with a red box.

2 मुलांनो तुम्ही प्राणी पहिले आहेत का?

3 नोंदवा विषय असो!

4 आपण घरात कोणते प्राणी पाळतो?

5

6 जंगलात कोणते प्राणी राहतात?

या चित्रात कोणते प्राणी दिसत आहेत?

Autoplay



Community contributed rich toolsets

MH teachers have created textbook linked content ...

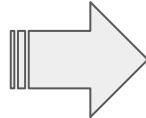
Artifact of marathi content

११. प्राण्यांच्या गमतीजमती

- पहा, जोना, रेसा, मसा.

हल्ती चालतो झुलबत सोंड,
माकडीने रेवले आपले तोड.
गाढवाच्या पाठीवर ओडी पार,
वानरही झाले त्वावर ख्वार.
वाघ येताच हरिण पाबले,
कुळ्याने सारे रान उद्दले.
मासा, कासव पाण्यात खलले,
ससा नि गाव पळ्या सुटले.

प्रकाशने मुक्तपत्र विषयावधीन संस्कृते लिंगा रथ प्राण्यांच्या भूमिका यापातम. मुक्तपत्रातील अन्यांशी व्यवहार वरचवाईली. (जो-प्रकाशन हातातातील कठी, वरचवाईली.) या मुक्तपत्रातून खेळातील वापरांनी, विषयावधीन वापरांनी एवढे विषयावधीनी, ती व्यवहार निहिं तोष व्यवहारातून याच व्यवहारात राख पारा. तेंव्या विषयावधीनी विनंती विषयावधीन सांगून तेंव्या व्यवहारात व्यवहार तेंव्या व्यवहारात. विषयावधीनी दोनों व्यवहारात याचांनी, तेंव्या विषयावधीनी विषयावधीनी वापरातील व्यवहारात याचांनी, वारीतील व्यवहारातून अनुभव पारी न विनंती यापातमातील.

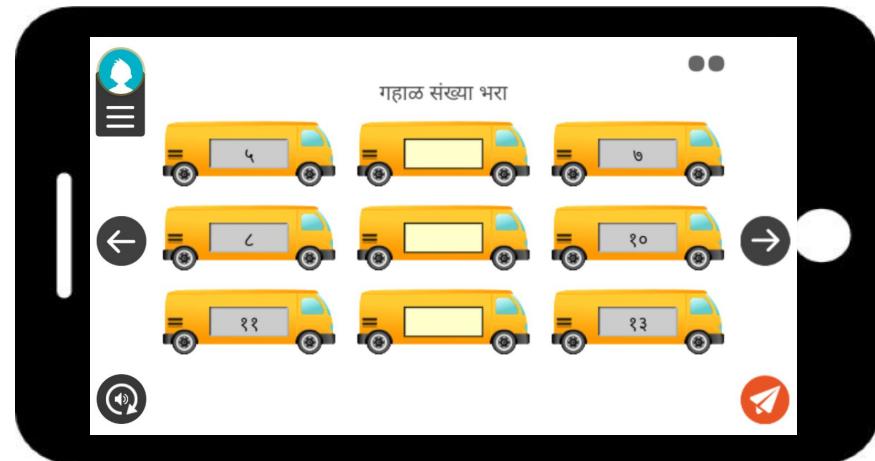
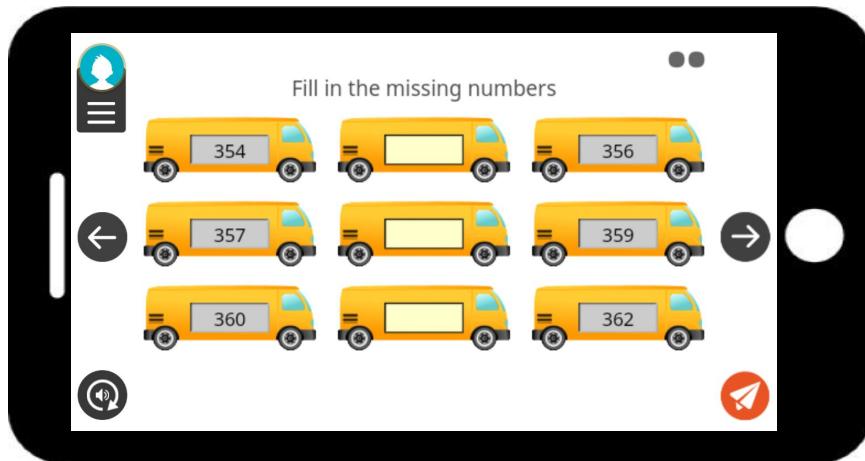


चित्र पहा आणि जोडी लाव.

ससा
गाढव
गाय
वाघ

मागील पाठात आपण खूप प्राण्यांची माहिती पाहिली. त्यांची चित्रे पाहिली आज आपण त्यांच्याविषयी आणखी माहिती घेऊ.

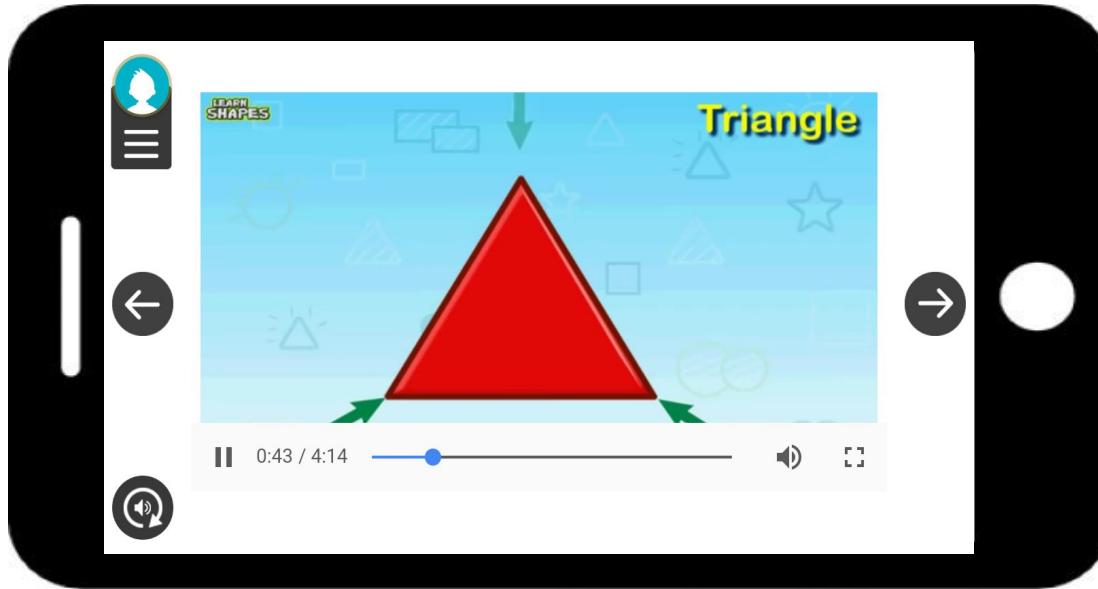
... translated expert worksheets to Marathi ...



English

मराठी

... and linked relevant YouTube videos



Content creation workshops conducted across states



Maharashtra

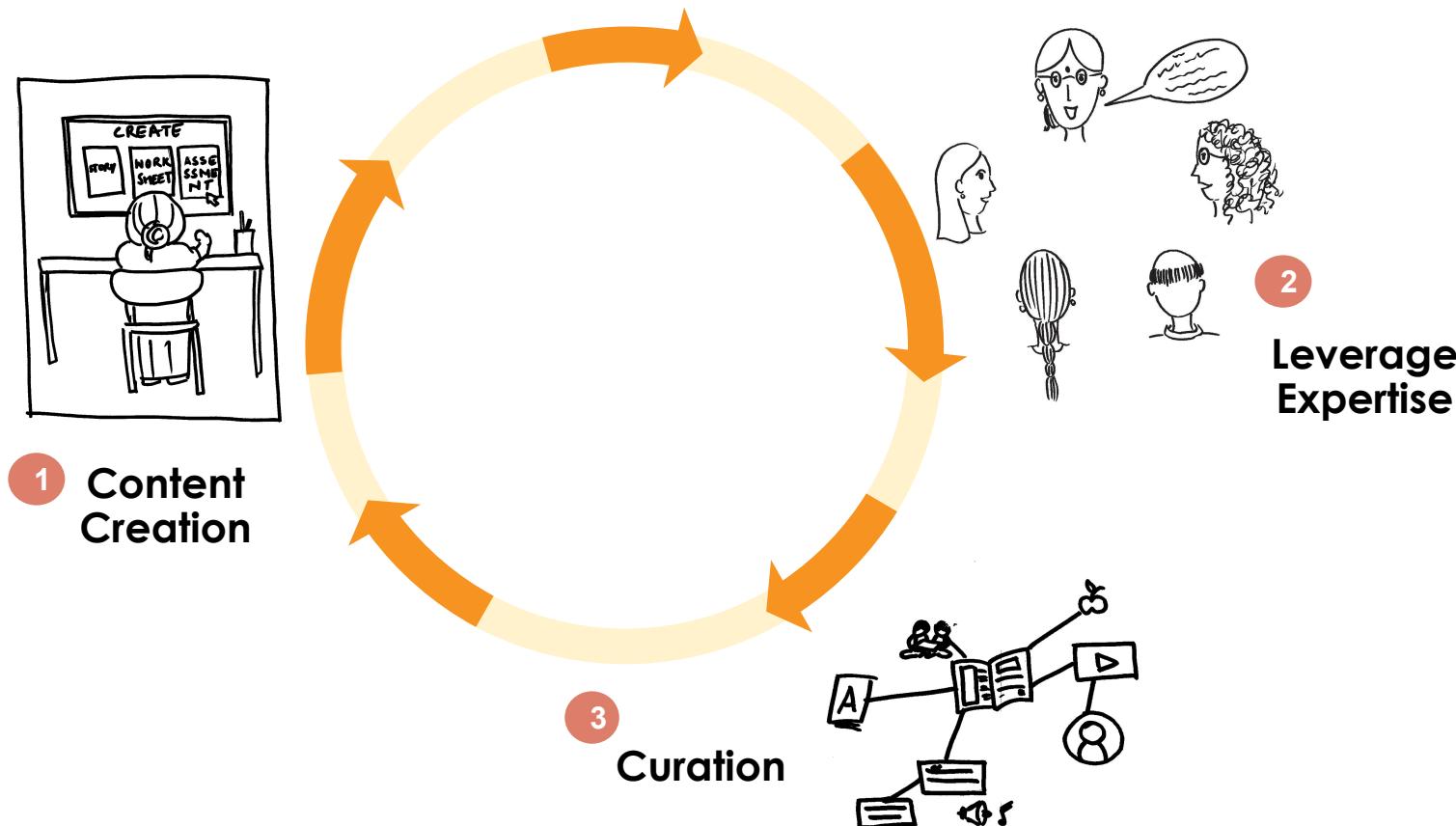


Tamil Nadu



Andhra Pradesh

NTP platform can enable repeatable content cycles



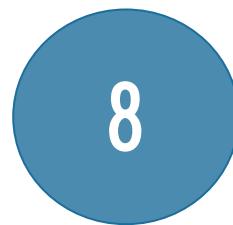
Further use cases created by collaborative imagination
and on-the-ground needs



?



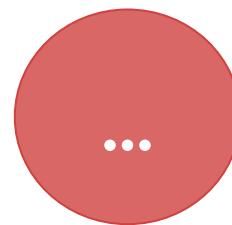
?



?



?



???



THANK YOU