PROCEEDINGS OF THE DIRECTOR, SCERT, ANDHRA PRADESH, AMARAVATHI

Present: D. Madhusudhana Rao, M.A., B.Ed.,

Rc.No: 315-B/SCERT/2017

Dt. 24.8.2018.

Sub: SCERT, AP, Amaravati - Usage of the **Energized Textbooks** - Downloading of AP-DIKSHA App. – Viewing content on App. and Portal – User Instructions Issued – Reg.

Ref:
i. NCTE, GOI letter dated 23.07.2017 inviting AP to be the Champion State
ii. NCTE, GOI Letter D.O.No.NCTE-Acad024/7/2017-Acad-H dated 02.04.2018
iii. E-mail from National DIKSHA-PMU dated 06.08.2018 on readiness of DIKSHA App. and Portal for public consumption

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The objective of **Energized Textbooks (ETB)** as mentioned in **Annexure-1** is to provide learners easy access to more information using online resources that stimulate and engage learners and teachers. Today, technology has made it possible for information to be available at the click of a button. It is therefore inevitable for the education system to adapt and adopt technology to enhance learning outcomes.

Students, parents and teachers can follow the instructions given in the textbook to download the mobile application to scan the QR code and access the state-of-the art content available from their Android smartphones/tablets or desktop computers/laptops. Awareness regarding this unique initiative must be raised equally amongst students, parents and teachers and they must be encouraged to adopt this digital enterprise.

Instructions on **How to use the Energized Textbooks (ETB)** are provided in **Annexure-2**

It is therefore requested to all the DEO's to share **Annexure-1&2** to all the Dy.E.O's/MEO's/HM's/Teachers and initiate necessary action on using Energized Textbooks by providing wide publicity and creating awareness among Teachers, students, Parents and Community so as to get full advantage of Energized Textbooks (ETB) and make APeKX-DIKSHA a vibrant and utilitarian platform.

Further, It is proposed to conduct Video/Teleconference (MANA TV) in the 1st week of September 2018 on QR code enabled Energized Textbooks. Exact date and time will be intimated shortly.

DIRECTOR,
SCERT.AP, AMARAVATI

Copy to all the DEO's for necessary Action
Copy to Special Chief Secretary, School Education, Andhra Pradesh, Amaravati
Copy to Commissioner of School Education, Andhra Pradesh, Amaravati
Copy to State Project Director, SSA, A.P
Copy to Director, RMSA, A.P
Copy to Joint Director, IT-Cell, CSE-AP
Copy to PMU/IT-Cell
Copy to all the district IT cell/s.
Copy to HOD, Digital Learning, SCERT.

Annexure-1

APeKX-DIKSHA (Digital Infrastructure for Knowledge Sharing), a national platform for teachers, developed by NCTE-MHRD, GoI was launched on 5th September, 2017, to accelerate and amplify solutions, experiments and innovations that are underway and/or being undertaken in the areas of digital teaching and learning content for teachers and students; teacher training and professional development. The major verticals of DIKSHA are as follows:

Teaching and Learning Content (TLC) - TLC will consist of curriculum linked resources for teachers and students. Resources will be available in varied formats such as lesson plans, videos, PDFs etc.

Energized Textbooks (ETB) - Energized textbooks (ETB) will leverage QR codes to link the aggregated/created digital content with the existing textbooks. The aggregated/digital content can be used both by the teachers and the students.

Teacher Profile and Registry- Teacher profile will be validated for in-service teachers by converging data from existing databases or collecting data from the field. The profile fields have been finalised and the software is being developed.

Teacher Professional Development (TPD) – TPD (Online Courses) will consist of modules for aiding teachers in their professional development and building capacities in newer areas on need basis.

Platform for Content Creation by Teachers- DIKSHA allows teachers and head of schools to create content. Using DIKSHA platform, teachers can create relevant content and showcase their content to all users associated with the platform.

Meanwhile, during the review of Hon'ble CM garu on 7.11.2017 directed to ensure quality digital content that is available as open source and Content created by Tech Savvy Teachers, etc. and provide easy access to all teachers and students to facilitate students learning anywhere, anytime and at their own pace. **Energized Textbooks (ETB)** have been introduced in the state by placing QR codes in the textbooks and linking them to videos and interactive digital content from classes 6 to 10 for all non-language subjects includes Maths, Science, Biology, Physical science and Social Sciences for both English and Telugu Mediums for the academic year 2018-19.
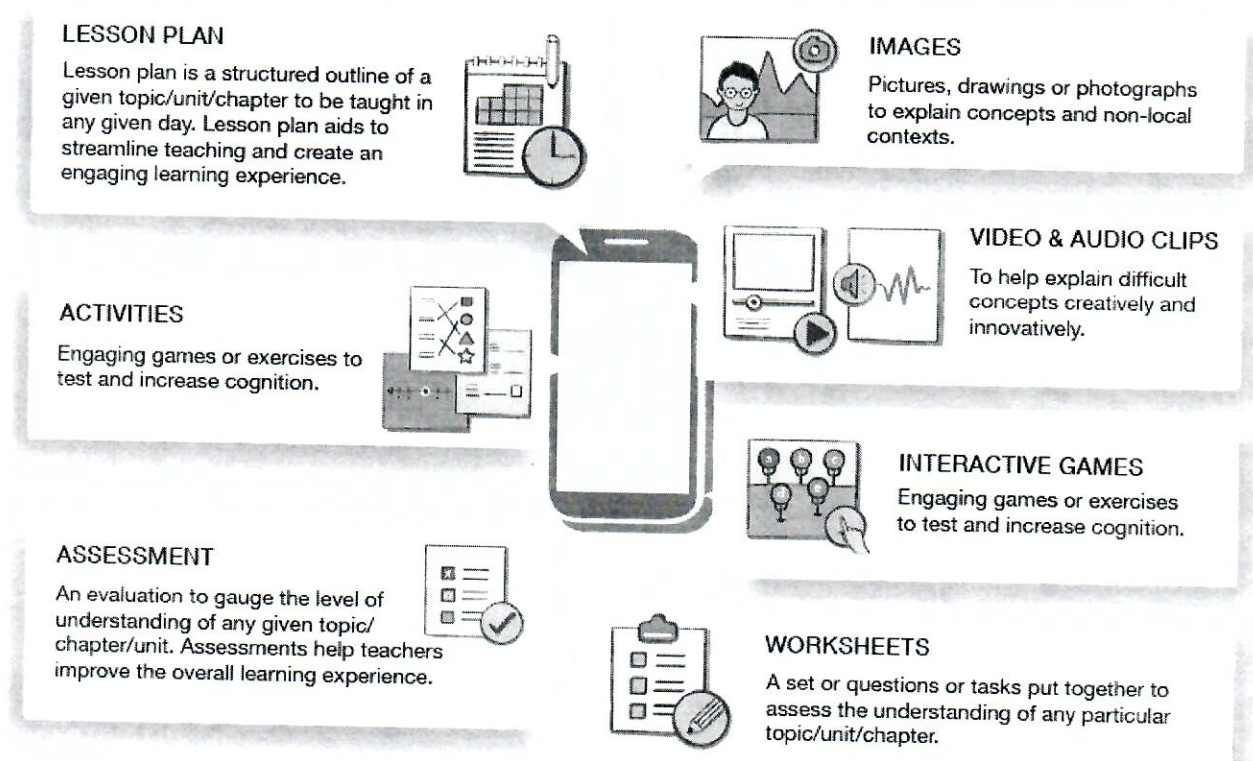
ETB make it easier for teachers and students to find content relevant to the concept/topic/chapter. It is proposed to link digital content with physical textbooks through QR codes- two dimensional barcodes that are readable by a smart phone/tablet. QR codes will be printed in textbooks

and link digital teaching and learning aids at a conceptual/chapter level. Unlike web URLs, there is no manual typing involved in QR codes which makes it an error free process and ensures uniformity in time taken to scanning vs typing.

These QR codes have been linked to digital content created and contextualized by a pool of trained state government teachers who were selected from various districts within the state who created exemplar digital contents and have been a part of this journey since Sept, 2017.

Administrators, school leaders and teachers are all important stakeholders in APeKX-DIKSHA and their role will be very critical for the success of APeKX-DIKSHA key objectives.

Energized textbooks provide easy access to a wide range of educational material to create an engaging learning experience. Each chapter in the textbook has QR codes which when scanned with the DIKSHA app, displays state curated content for that particular chapter.

LESSON PLAN

Lesson plan is a structured outline of a given topic/unit/chapter to be taught in any given day. Lesson plan aids to streamline teaching and create an engaging learning experience.

IMAGES

Pictures, drawings or photographs to explain concepts and non-local contexts.

ACTIVITIES

Engaging games or exercises to test and increase cognition.

VIDEO & AUDIO CLIPS

To help explain difficult concepts creatively and innovatively.

INTERACTIVE GAMES

Engaging games or exercises to test and increase cognition.

ASSESSMENT

An evaluation to gauge the level of understanding of any given topic/chapter/unit. Assessments help teachers improve the overall learning experience.

WORKSHEETS

A set or questions or tasks put together to assess the understanding of any particular topic/unit/chapter.

Annexure-2

We have printed QR codes at topic/concept level based on two major objectives,

   a) For Teachers - Topics/Concepts which are hard to explain

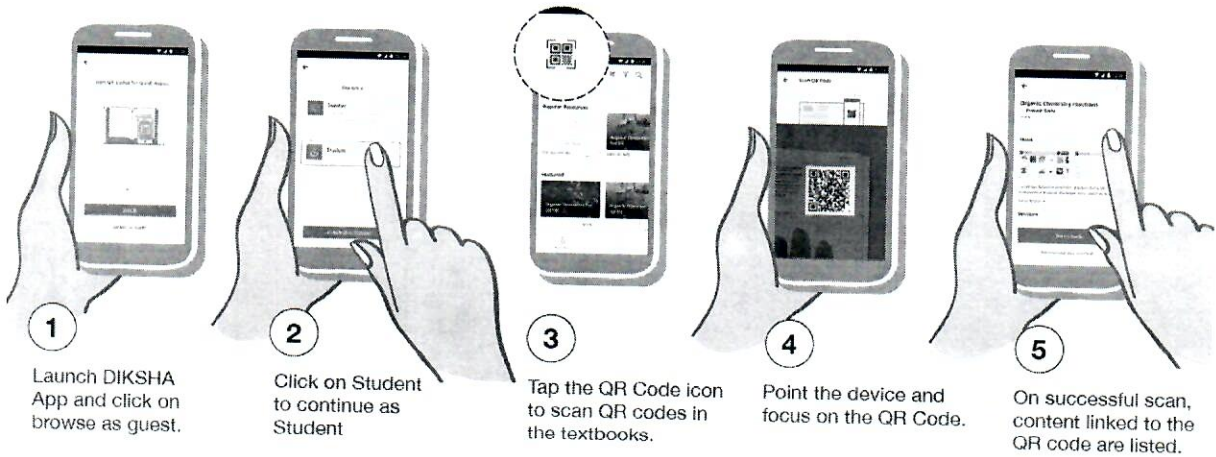   b) For Students – Topics/Concepts which are hard to imagine/understand the concept/topic.

Following steps need to be followed to use QR code embed Energized Textbooks (ETB):

1. Step-by-Step Instructions are printed in all the Textbooks after the front cover page to view content placed in the QR code.

2. We can download DIKSHA app. from Google play store at **https://diksha.gov.in/ap/get** (or)

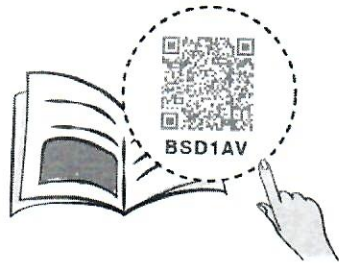| DIKSHA	**HOW TO DOWNLOAD DIKSHA APP**
	OPTION 1: Type diksha.gov.in/app in your mobile browser.
	OPTION 2: Search for DIKSHA NCTE in Google playstore and tap on download button.

3. Using Smartphone (or) Tablet which has camera and enabled with seamless internet connectivity to view awesome videos, animations, interactive content, etc. by scanning the QR code printed in the textbooks.
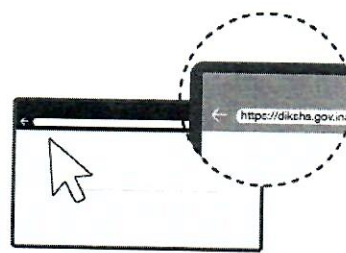
HOW TO ACCESS DIGITAL CONTENT USING QR CODE ON MOBILE

1 Launch DIKSHA App and click on browse as guest.

2 Click on Student to continue as Student

3 Tap the QR Code icon to scan QR codes in the textbooks.

4 Point the device and focus on the QR Code.

5 On successful scan, content linked to the QR code are listed.

4. Using Desktop/Laptop to view the digital content inside the QR Code,
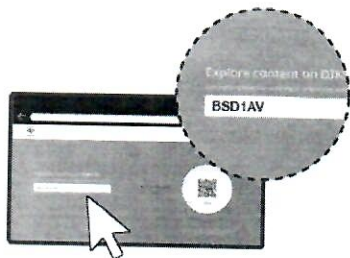
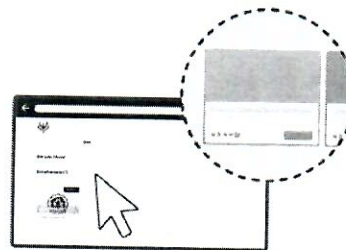# HOW TO ACCESS DIGITAL CONTENT USING DIAL CODE ON DESKTOP

1 Under the QR code there would be 6 digit code is the DIAL code

2 Type diksha.gov.in/(State name)/get in your browser

3 Type the DIAL code in the search bar

4 View list of content available & click on any new content

5. Except Youtube Videos, We can download all the other digital content using DIKSHA App. and view it **offline** in the future. (Make sure there is enough memory space in the mobile/tablet)

6. Content viewed on DIKSHA app. is safe for the child as it is thoroughly checked/recommended by the expert teachers in the state.

7. No need of login id and password to scan and view the content placed in the QR code.

8. We should not draw/write anything on the QR code

9. We should not tear the QR code printed on the textbook as scanning of QR code won't work

10. We have to scan the QR code without bending/tilting/moving the QR code printed on the textbook

11. AP instance of DIKSHA app. is completely free of cost as it is built by NCTE-MHRD, Govt. of India, We don't need to pay any charge to anyone.

In case of any query, request you all to **E-mail** us at **econtentcell@apschooledu.in**

For further queries Call :   P. Srinivasa rao – 9849045684
N. Allwyn – 8125695173.