Study of the effectiveness of self study through QR Code Technology (Digital Textbook With Q.R. Codes) on Std. 4 Students of Shri Shahpur Primary School

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Abstract

This paper is about a grassroots level village primary school's student learns English through Q R Code technology in Std. 4. Digital Q.R. through the latest technology in place of the "chalk and talk" method for teaching English in Lower Primary of std.4 in rural primary school. Codes with Audio Book, Video Book, English Std 4 Textbook With Q.R.Codes, English Learning is done with the help of Android Apps. Q.R.Codes of audio-video link were placed in standard 4 English textbook as per unit wise activity. In which Q.R.Codes of Poems, Riddle, Rhymes, Picture Story, Songs, Textbook Content Pronounciations, Prayers, Story, Action Songs, etc. have been placed as per Unit Wise Activity. Also, the Q.R.Codes of the link to the videos of the words of the appendix have been placed in the textbook in particular. During lockdown, through Q.R.Codes, students can scan their favorite Q.R.Codes and digitally self-study the favorite activity of their favorite unit through technology. The same Q.R.Codes have been placed in the textbooks of the children so that they can scan the Q.R.Codes at home and achieve self-study in an interesting way. Giving study work through digital textbook in Std. 4 in the joint class teaching work shows active and intensive participation in it. In this way, the effectiveness of teaching and learning is significantly increased. And English Language learning outcomes are also achieved through technology.
Keywords: Q R Code, standard 4 English digital textbook, Self Study

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- To bring innovation in multi-grade schools learn English through Q.R.Codes technology.

- To provide nourishment by removing anorexia in self-study of English

- To innovate through technology in the achievement of English learning outcomes.

- Digital Q.R. through technology instead of "chalk and talk" method. Conduct study work with the help of Audio Book, Video Book, English Std 4 Textbook With Q.R.Codes.

- To remove the boredom of students in English classwork in standard 4 and to remove the dislike and how of the English language.

- Q.R.Codes of the audio-video link was placed in standard **4 English textbooks** as per unit activity. In which Q.R.Codes of Poems, Riddle, Rhymes, Picture Story, Songs, **Textbook Content Pronunciations**, Prayers, Story, Action Songs, Etc. have been placed as per Unit Wise Activity.

- And especially the Q.R.Codes of the link to the videos of the words of the appendix given in the back of the textbook has also been placed. Through these Q.R.Codes, the student can scan his / her favorite Q.R.Codes Scanned and **digitally self-study** the favorite activity of his / her favorite unit through technology.

- Similar Q.R.Codes have been included in the children's textbook so that they can scan Q.R.Codes at home and **interestingly achieve self-study**.

THE IMPORTANCE OF RESEARCH:

Usually through ICT students are actively involved in the learning process. So in an innovative way the English language can be taught quickly and enthusiastically. And the student also creates knowledge. And the child's distaste for English can be removed. As the

student's self-study through QR code technology, the knowledge gained from the English language becomes lasting and comprehensible.

OBJECTIVES

- To design a plan in which children can self-study English with the new approach of technology in a multi-grade school.
- Designing a medium (Digital Textbook with Q.R. Codes) to learn English innovative with QR code technology.
- Examining the effectiveness of Digital textbooks on students' academics. Checking students' interest in the Digital Textbook.
- Study the opinions of students, parents, and teachers regarding the Digital Textbook.

METHOD

- In this research, the researcher has used an experimental research method.
- In general, our school is a multi-grade type of primary school, which means that since the joint teaching work of Std. 6 and Std. 4 So 14 students of standard 4 were divided into two groups. In which QR codes were placed in the textbook of 7 students in the English textbook as per unit wise activity. This digital textbook with QR code is to give students the experience of the study program through experimentation, so this was an experimental type of practical research.

HYPOTHESIS

1. There will not be any significant difference between the boys and girls in the first test of Shree Shahpur Primary School.
2. Based on constructive evaluation SCE 20-20 marks pre-examination and post-test and average evaluation was done. The information was interpreted.

FULL DETAILS OF THE INNOVATIVE EXPERIMENT

Q R Codes of the audio-video link was placed in the standard 4 English textbooks as per unit activity. Q R Codes have been placed. Also, Q R Codes have been placed specifically in the textbook with the link to the videos of the words in the appendix given at the back. Through these Q R Codes, students can scan their favorite Q R Codes and digitally self-study the favorite activity of their favorite unit through technology. So that he can scan Q R Codes at home and interestingly achieve self-study. Thus, to commit to education and re-education from a new approach through the medium of technology from the above digital textbook

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DATA COLLECTION AND ANALYSIS: EVALUATION

- Activity wise assessment was done per unit. And its note was also kept in the activity register student wise.
- Poems, Riddle, Rhymes, Picture Story, Songs, Textbook Content Pronunciations, Prayers, Story, Action Songs were evaluated verbally.
- Alphabet and simple words spoken and written were evaluated.
- Action Songs and Action Verbs evaluated learning outcomes verbally, in written form, and through observation and observation.
- Besides, in the new experiment, each student was evaluated according to the achievement of learning outcomes according to the unit's activity.
- Giving teaching work through a digital textbook in Std. 4 in the joint class teaching work shows active and intensive participation in it. And thus significantly increases the effectiveness of **teaching and learning**. **And learning outcomes are also achieved through technology**.
- Digital Q.R. through technology instead of **"chalk and talk"** method. The study was done with the help of Audio Book, Video Book, English Std 4 Textbook With Q. R. Codes, English Learning Android Apps with Codes.

  Thus, to commit to education and re-education from a new approach through the medium of technology from the above digital textbook.

RESULTS

Major findings of research:

- The "Digital Textbook" showed a special growth in the oral practice of the children of Std. 4 and they started studying with interest.
- English language listening and speaking developed specially.
- Attendance - Awareness of absence in school.
- 70% of the children showed readiness to learn English and participated in prayer meetings and classrooms at Poems, Rhymes Etc. Sang.
- 50% of the children spoke simple spellings, alphabet (A B C D), Days, Fruits, Vegitables and other words. 40% of the children were greeted.
- 50% of children read and write the alphabet (A B C D).
- The dislike of English in the children of standard 4 was removed and they became acquainted with the digital technology of Q.R.Codes. They started using Loan Words enthusiastically.
- Achievements in learning outcomes were observed in 55% of children.

KEY FINDINGS

- Self-study of English through technology like Digital Textbook becomes innovative among the students of multi-grade primary school and the interest and aptitude of the children increases. And the academic

- Achievement increased by 35% and saw a significant improvement. The achievement achieved by checking the effectiveness of the students in the experimental group is 35% higher. This new experiment has been a very effective and thorough implementation of the academic achievement of boys and girls can be increased.

OPINION

- Based on the experience of the study presented, the student gives an opinion on its usefulness and effectiveness to other schools / teachers / students as follows.

- With the help of innovative ways, English language can be taught quickly and in an interesting way. And in the achievement of learning outcomes, innovation can be brought through technology.

- Results obtained with the help of Digital Textbook With Q.R.Codes Research can be conducted on the reasons behind this result.

- This study was limited to English subject of Std. 4 students of Shri Shahpur Primary School, Vallabhipur Taluka, Bhavnagar District. Study can be conducted in every subject in each Std.

- Through ICT, achievement can be achieved by making teaching-learning easy and interesting.

- English learning can be made interesting with the help of new approaches and smartphones.

SUMMARY

Through the present research, it can be learned that self-study can be assisted in the teaching work by innovating self-learning through technology like Digital Textbook in multi-grade primary school students. It can be made innovative. Children became fascinated with QR code technology. English written and oral expressions developed and children showed excellent expression. As a Students learns through technology, he can create knowledge quickly. Different learning outcomes are clear and the knowledge gained becomes permanent. Research can be useful.

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