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Essential modern way of teaching and learning process

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ABSTRACT

This research paper gives an essential modern way of teaching and learning process to all world. Through graphs and surveys, it is proved that the traditional teaching method is very boring, a teacher-centered, Apathetic, students dislike so the progress of the students has been certainly reduced. On the contrary, in the classroom teaching use the combination of modern technology (using interactive animated flipbook) & constructivism always drop a positive effect on students.

Keywords— Teaching and learning process, Mathematics, Modern technology

1. INTRODUCTION

In Maharashtra state Bhamate is a Highland and Desultory village which is 22 km away from Kolhapur district city westward. In 12th June 2003, Mr Machhindra Raghunath Kumbhar started working as an assistant teacher in the school of Adarsh Highschool, Bhamate Tal- Karveer, Dist Kolhapur. This school has only 5 teachers to manage students from standard 8 to10. In that school, I teach Mathematics subject from service joining date. Identify the burning issue of Mathematics in the various school as follows.

2. THE BURNING ISSUE OF MATHEMATICS

We can rarely find a school that has students interested in Mathematics. If we peep into we feel concerned about the decreased quality of mathematics, the fear about the subject and disinterestedness of learners. Is math's so difficult to understand? Or there is any problem with our teaching? Are today's learners tired of the traditional way of learning with blackboard, chalk and charts? These questions arise in the mind of a teacher like me and when I tried to find answers. I understood that there are many innovative and delightful ways of teaching Mathematics. The inspiration behind the creation of "Interactive Animated Flipbook of ninth standard mathematics Part-I". Today's kids are growing to handle advanced instruments and gadgets from childhood. To attract these multimedia struck children towards learning and make them learn is a challenging task before teachers. So, it is mandatory for the teacher to turn to be technosavy. This is the inspiration behind the creation of this Interactive Animated Flipbook. Which helps learners to learn in an entertaining way. Let's see the need and importance of my innovation.

3. NEED AND IMPORTANCE OF MY INNOVATION

Use of Modern Technology in self-create Interactive Animated Flipbook. All factors are arranged according to constructivism. Joyful Education is the main objective of my innovation. Arrangement of attractive Videos and Cartoons in Animated, MP4 and MP3 Format. All videos and exercise of chapters are self-created in Interactive Animated Flipbook. According to unit links of websites are given for extra study and references this can be helpful for sufficient guidance. Students are appreciating difficult level part of Mathematics with the help of self-create cartoon films. Content related to Flipped Pictures is an attractive part of my Innovation. My Interactive Animated Flipbook brings to Vitality in the textbook.

4. PRE-PREPARATION

My innovation project is completely depending upon self-made Interactive Animated Flipbook and many types of classroom learning based group activity. So you firstly download freely Interactive Animated Flipbook with the help of following links

4.1 For Desktop or Mobile: <http://online.anvflip.com/kwwj/ldwk/mobile/index.html>

4.2 Download with the help of QR code:



Scan QR Code with the help of QR scanner then open given link click on it then see Interactive Animated Flipbook in your android device and Open in your smartphone

5. PLANNING OF AN INNOVATION

An innovation was planned as follows,

For Innovation, I had selected Sets chapter of IX th std. (Mathematics Part-1)

(a) To download Interactive Animated Flipbook of IXth std Maths Part-I in their smartphones by using above given link

(b) To complete the Home Work by viewing the same videos and cartoons. The next day the homework was checked and doubts were cleared.

According to the timing given in the innovation methodology, on that day, the students should carefully check the video and cartoon (7 minutes) by clicking on the link provided in Interactive Animated Flipbook of IXth std Math's Part-I. In that group discussion, activity work, question creation, self-esteem, educational material production, homework, self-determination and doubt Special emphasis on this. In this way, according to the time table, videos and cartoons of the related units were showed from YOUTUBE by using Interactive Animated Flipbook of IXth std Math's Part-I. Using constructivism in the class every student take part in group activity very joyful. In a group activity, they make itself models of Set, Types of sets, Venn diagram, Subset, Universal set, Complement of a set, Intersection of two sets, Disjoint sets, Union of two sets using of raw materials means making durable goods from waste items. The task was completed according to the pre-planned time-table. Then multi set paper online test was planned using by testmoz.com website. Students from each group appeared online test of 25 marks. The performance was registered for Evaluation. In this way, an innovative project was completed. Let's see Some Screenshots and Structure of Flipbook.



Fig. 1: Pages of the flip book

Structure of Interactive Animated Flipbook

Using the Flipbook student learn joyful and smartly. From front page student start to learn using clicking on various tabs which are given on page.

In the text book there are many types of flipped images and content related videos which can be confidently solve content related problem of every student mind.

Smart and Amuse extra exercise very helpful for student memoire and revise mathematical content.

Some Highlights of student learn with the help of animated flipbook



Fig. 2: Using the Flipbook student learn joyful and smartly



Fig. 3: Students Learn every content very carefully & concentrated with the help of Flipbook.



Fig. 4: Mr.M.R.Kumbhar sir In the Class Taking Students Activity by using Animated Flipbook



Fig. 5: Hon. Scientist Dr. Arvind Natu sir and Hon. Dr. Gitanjali Borude Attend function of Inaugurator of Interactive Animated Flipbook

Let's compare an average percentage of obtained marks in Pre-Test and Final Test with the help of "the Graph"

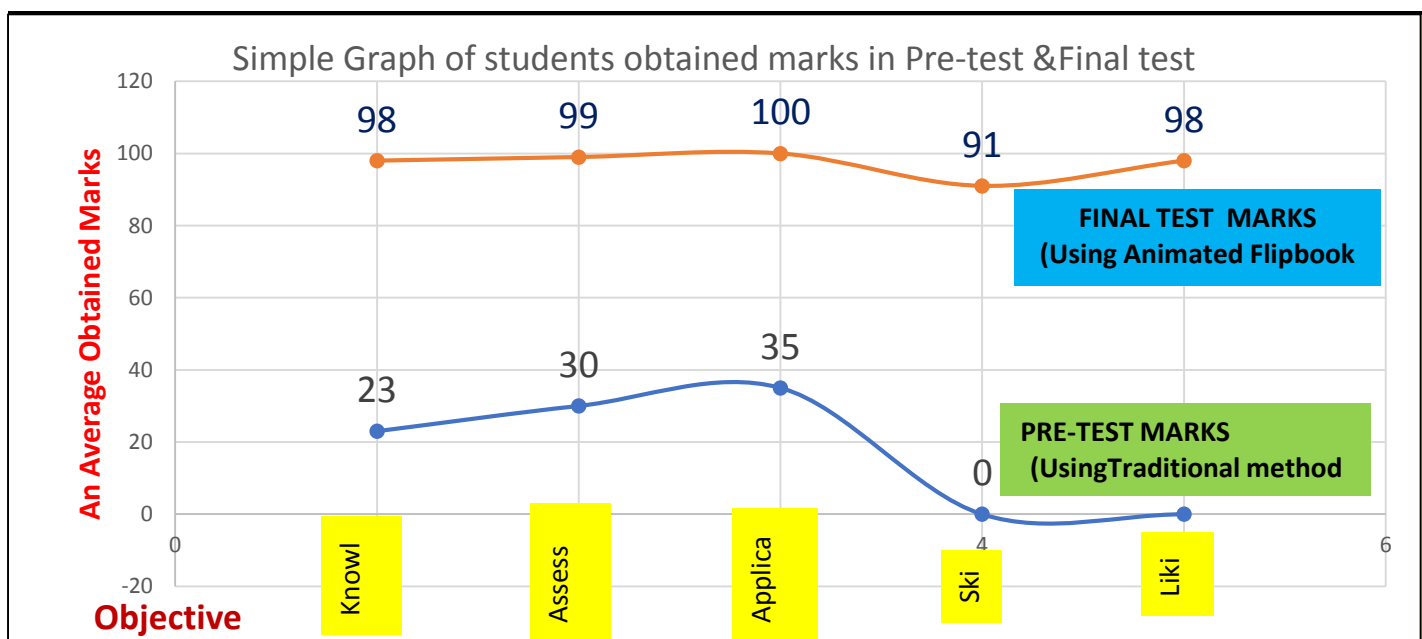


Fig. 6: Graph of students obtained marks in Pre-test and Final test

After observing the above graphs, You can easily understand the traditional teaching method is very boring, a teacher-centred, Apathetic, students dislike so the progress of the students has been certainly reduced.

On the contrary, in the classroom teaching use the combination of modern technology (Using Interactive Animated Flipbook) and constructivism always drop a positive effect on students. If include the constructivism in the teaching method then children are filled very happily. That's a method, keeping encouraged the children to done their work very smartly, motivate them doing their work and give them an opportunity to learn according to their ability.so the progress of children has been certainly increased.

Children who are involved in mobile and who are losing their time in mobile. This innovative project work is useful for these students. This innovative project work is fruitful for the education system. This project work brings students in a stream of joyful learning. It keeps the student busy in classroom activities and also creates a scholastic atmosphere. Pleasant or Joyful learning is the main purpose of this project. Students are learning Maths with enthusiasm. This project enthuses pupils. We have succeeded to remove the unnecessary fear about maths by preparing Videos, cartoons and assignments based on constructivism. Under this project work activity books are made on as constructivism base Animated videos and MP4, MP3 formats are used to make related videos. These videos are related to math's topics. These videos make teaching, learning process easy and joyful Because of self-producing cartoons, which are used in "Interactive Animated Flipbook the students can solve difficult mathematical problems with great interest and happily. *This is the best result of my innovation. Different websites Links are giving in Interactive Animated Flipbook to learn some topics like "set". These links are useful as supplementary material for additional learning of such topics. "Testmoz.com" is very easy and interesting website.*

It is very easy for the students to give the tests and to get fast results at the same time it is easy for teachers to diagnose and to understand the problem and mistakes committed by the students and that will help the teacher to guide the students properly and to give them new links. No one remains undeveloped by using this work of the project. We have made 45 Apps to learn maths by easy way. These apps make the learning process more effective. My innovative project work creates interest in students. We found that now they are very eager to learn math's through this project. Before using this innovative project work students were on the average level but after using this project they are developed and got the skill of maths and very easy technique. It increased their interest in learning. This innovative work increases the level of knowledge, the skill of understanding and application. This project helps students to think independently and express themselves more effectively. By undertaking this project we got 100% development among students. It sharpens and upgrades their abilities and skills to acquire perfection. Students are getting acquainted with the beauty of maths. This innovative project is a revolution in the field of education. It aims to help students to become better users of the new technique. In the world of globalization, it has become a need of the hour. It increases the confidence among the students. Now students talk freely with teachers. It is definitely useful to all level students. This innovative work of Interactive Animated Flipbook in their day to day teaching. This "Interactive Animated Flipbook". Flipbook is freely available on given link. It will reach among students, teachers and parents within a few days. So the students, the teacher and the parents will get advantage by downloading this app. Day to day life students depends on private classes but this app will keep away students from such classes. It will bring them in the self-learning process. It saves money and time. Because of this innovation (Interactive Animated Flipbook), the parents, the society and the teachers and their teaching methods have increased their belief. It offers the opportunity for students to learn maths easily. It is an opportunity not only to students but also teachers and parents. Math's is part of our life.No human life without maths. We all are familiar with it but the app provides a simple way to handle math's and give chance to do the practice. My innovation is completely paperless means eco-friendly. All data of my innovation available in "Interactive Animated Flipbook "that is on the internet. It saves environments. Ideal citizen makes an ideal society. Nowadays students are the builder of the nation. My flipbook develops to students means indirectly develop to society. With the help of Advanced Technology such as What's app, Facebook, Twitter, Skype, Attendance app, Math-papa app. Social work jobs app etc. these flipbook connect school to society. *Our innovative flipbook aims to build fearless, tension free, confident and self-sufficient, studious students. It works as a tutor. Thus this flipbook is the foundation of a new society. Thanks to all.*

BIOGRAPHY



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