A study of Impact of Interactive Digital Board on students learning

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Abstract:-

The technological application in the school education has taken a prominent place over the period of last few decades. The education without Technology has become an imaginary the present research article is based on action research that was conducted in the school to study the impact of use of interactive digital board the research was presented to British Council in collaboration with Cambridge Education Foundation under Global Teacher Accreditation Project. It was undertaken to study the various applications of the technology for the school community in particular and education fraternity in general the study revealed that Technology has its own prominence and advantage to make learning joyful and impact.

Working context

KKPS is a CBSE affiliated school spread in 5 acres of lush green landscape in the outskirts of Nanded. The school is managed by Late Sow. Sarojdevi Memorial Trust. The school was established keeping insight to impart qualitative education. It has presently 1100 learners and continuously mentored by 80 well-qualified dedicated and committed facilitators.

Expected result

The research is confident that if the interactive digital boards are installed in the classroom and if proper training is given to the teachers the impact will be miraculous as it will add a new dimension to the teaching in the school, it will make teachers more techno-savvy, it will help teachers in preparing and delivering the lessons effectively and it will make learning joyful and effective.

The teacher's attitude towards teaching will be more positive as it will be less stressful and the children will be more attentive and positive because the impact of audio-visual will make them active learners and healthy interaction between the learner and the teacher will be established further this will give opportunity to teachers to interact amongst themselves and have collaborative approach in preparing lessons and assigning tasks to the school

Learning focus

"The focus of my project is whether the use of interactive white boards can make teaching and learning effective and long lasting".

During the visit to Costessey Junior School under reciprocal visit grant. The researcher was enthralled to observe the interactive white boards in the classrooms and its multiple applications.

The researcher strongly felt the need of installing the interactive digital boards in the classrooms, so that the learning becomes interesting and effective. The idea was discussed with the board of trustees, and after certain round of discussion, they agreed to install the interactive digital board in the classrooms.

Accordingly, the boards are installed in the classroom just few months ago. Now I look forward to see the following changes.

- Children have created interest in learning.
- The learning has become easier.
- Teacher's work is reduced and their efficiency is increased.

Ethical issues

Though the interactive digital broads are installed in the entire classrooms, the present project is limited to one section of class 6 and restricted to science topic (body movements). The topic will be dealt by referring NCERT & other allied books. This class is selected, as it is convenient to interact & record their experience and to get accurate feedback.

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The teachers who are dealing with the above-target class will be consulted or their support will be taken throughout the project and their views will be recorded

The focus of our project is an investigation whether the use IDB will create an impact on the minds of the students with regards to the given subject/topic and will the use of IDB will be helpful to them.

1. I anticipate that the children are interested to learn through AV media. It is also a well-known fact that AV has a good impact on understanding.
2. I anticipate that the children are aware of the objectives of the project and they will be proactive throughout the project.
3. I will also be able to write in detail the changes in the students prior to use of IDB, during the use of IDB and after the use of the same. Thus, the understanding and impact level will be closely monitored throughout the project.
4. I'll also be able to judge the development of various levels and sublevels.
5. I anticipate that children's overall understanding of the subject i.e. Science will improve and the improvement will be perpetual.
6. I anticipate that after the project the children will take responsibility of their learning.
7. I look forward to see that the children will be able to recapitulate, represent whatever they have learnt during the project.

Key learning outcomes

During the studies the lessons were scientifically planned. The tools of assessment both conventional and modern were carefully applied. The students and other observers were briefed about the studies from time to time. The conclusion and to analysis the outcome were a challenging task. Therefore, the tools were carefully selected and used so as to have unbiased and accurate conclusion. The observations the feedback and the test papers of students were assessed and scientifically analyzed on the basis of task referred in earlier pages. The following are the key learning outcomes.

Student's analysis report based on various test conducted

- 80% students think that Interactive Digital Board makes teaching effective.
- 74% students are of the opinion that Interactive Digital Board will not replace the teachers.

- Majority of the students think that Interactive Digital Board is more useful for the core-subjects; it is of less importance for the co-curricular subjects.
- Every student agreed that it is the best alternative to the chalk boards, visuals, audio and motion makes teaching interesting.
- The effectiveness was rated 4 out of 5 by the majority of the students.
- 54% students agreed that, Interactive Digital Board helps in clearing the concept.
- 83% students agreed the level of teaching is excellent, while using Interactive Digital Board. Thus to concludes, the impact of Interactive Digital Board on learning is effective, long lasting & result oriented. The teachers on the other hand while accepting the effectiveness of Interactive Digital Board in teaching learning process have also opined that, they needed more hands on training & orientation where as the observer agreed the effectives utility and importance of the Interactive Digital Board.

Students Feedback

1. 5.71% Students understood muscles, 8.57% understood Bones, 14.29% Understood joints, 5.71% understood bones and muscles, 22.86% understood muscles and joints, 8.57% understood joints and movements in other animals, 20% understood bones and joints, 2.86% understood bones and movement in other animals and 5.71% students understood all lessons.
2. 80% students thinks that use of Interactive Digital Board makes teaching effective and 20% thinks that it's too early to say.
3. 74.23% think that the interactive board will not replace the teacher, 5.71% thinks that to certain extent interactive board will replace the teacher and 11.43% they are not sure.
4. The Interactive Digital Board should be used 8.57% social studies, 34.29% languages and social studies, 28.57% Math's and Social Studies, 17.14% language, Math's and Social Studies and 11.43% all subjects.
5. 22.86% thinks that for sports, music, art and craft Interactive Digital Board is not needed, 17.14% thinks that for Sanskrit and Hindi Interactive Digital Board is not needed, 5.71% thinks that Sanskrit, Hindi, Sports music art and craft Interactive Digital Board is not needed and

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54.29% thinks that they need Interactive Digital Board for all subjects.

6. It makes the concept very clear. It creates interesting. It motivates learning process. It is useful to improve knowledge as well as marks. It takes less time to understand the concept. It is useful for all subjects. With the help of Interactive Digital Board and teacher's explanation the learning process will be excellent. Interactive Digital Board attracts the students because of more video clips. Learning through Interactive Digital Board makes us to remember things for long time.

Feedback From Co-Teacher

1. The teacher's application of Interactive Digital Board is 25% good, 25% Satisfactory, 37.5% Excellent and 12.5% more hands on experience expected. In over all the teachers' application of Interactive Digital Board is very effective.
2. 87.5% teachers thinks that Interactive Digital Board will play an effective role in teaching learning process and only 12.5% teachers thinks that it is too early to comment.
3. 43.75% teacher think that the implementation of Interactive Digital Board is excellent, 31.25% thinks it's good, 12.5% thinks its satisfactory and 12.5% teachers thinks it's OK. In overall it is very good.
4. 37.5% teachers faced a problem while using Interactive Digital Board due to lack of power supply, 12.5% needs more practice to use Interactive Digital Board and 50% teachers feels good while using Interactive Digital Board. If schools solve the problem of power supply then using of Interactive Digital Board will be very effective.
5. 100% of teacher thinks that Interactive Digital Board will prove to be of great help for teachers. Out of 100% teachers 50% rated 4 out of 5 points, 25% rated 4.5 out of 5, 6.25% rated 5 out of 5, 6.25% rated 2 out of 5 and 12.5% rated 3 out of 5.
6. It improves efficiency and ability. It is helpful to teach abstract ideas. It is good teaching aid for teaching learning process. In over- all Interactive Digital Board makes very effective teaching learning process in this present century and it reduces teachers work load.

Observation

Observation of 12 Questions by teachers and its analysis as follow.

1. 100% Yes, all teachers using Interactive Digital Board very effectively.
2. 71% Teachers used Interactive Digital Board for 20 min. and 29% Teachers used Interactive Digital Board for 30 min.
3. 100% of teachers explained lesson or subject topic by using Interactive Digital Board.
4. 100% of teachers interact with the students while using Interactive Digital Board.
5. 85.7% students responded positively for introducing Interactive Digital Board.
6. 100% of teacher used the Interactive Digital Board judiciously nearly 85.7%teacher rated 4 out 5 and 14.3% rated 3 out of 5.
7. Due to the introduction of Interactive Digital Board teachers even not used any other teaching aids. Interactive Digital Board is very effective.
8. 100% of teachers used recapitulation by taking 42.86% conventional method, 28.57%oral and 28.57% smart assessment system.
9. The use of Interactive Digital Board made 42.86% good, 14.29% very good and 42.85 excellent effective in the class room.
10. 100% of teachers able to notice that the impact of Interactive Digital Board is very effective. Their response is very good. The student's concentration is increasing.
11. The use of Interactive Digital Board is very useful to teachers as well as students. It is creating interest to slow learners. Within less time we can give more knowledge to students. Interactive Digital Board is a very good teaching aid for teaching learning process. Through Interactive Digital Board we can show more things which we cannot show on the black board. It is a boom for the future generation in the field of education
12. It is a boom for the future generation in the field of education. Teachers should go for other mode of teaching than Interactive Digital Board. Using Interactive Digital Board teacher can develop practical and experimental skills. It is more useful to fast learners than slow learners.

Conclusion

According to all observations we find that positive impact of Interactive Digital Board on students' achievement. Teachers also find Digital Board will play an effective role in teaching learning process.

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