

**DISTRICT INSTITUTE OF EDUCATION AND  
TRAINING**

**THIRUMOORTHINAGAR**

**TIRUPPUR DISTRICT**

**CONSOLIDATED**

**ACTION RESEARCH**

**REPORTS**

**2023-2024**

1. **Name of the Investigator:** C.VIMALA DEVI  
Vice - Principal.
2. **Name of the DIET** : **DIET, THIRUMOORTHINAGAR, TIRUPPUR.**
3. **Title:** “Enhancing the Skill of Using Digital Class in Teaching of Social Science among Upper Primary Students in Udumalpet Block”.

4. **OBJECTIVES OF THE STUDY**

- To find out the status and functioning of Digital Class in Schools.
- To find out the usage of Digital Class Room in Schools.
- To promote interest and involvement of education.
- To study the impact of Digital Class in Teaching Learning Process.

5. **SAMPLE OF THE STUDY**

Upper Primary students of from the various schools in Rural and Urban schools from Govt. & Govt. Aided schools in Udumalpet block in Tiruppur for the Action research

6. **TOOL:**

This investigator selected in random sampling method. Upper primary students from the various schools in Rural and Urban schools from Govt. & Govt. Aided schools in Udumalpet Block in Tiruppur District, priory, and the topic were explained about the investigation. The tool consisting of **Questionnaire for Upper Primary Students** was administered. Scoring marks are based only points.

7. **METHODOLOGY**

The investigator has selected the single group with the pre-test and post –test in the criterion measurements was Survey Method is adopted for this study.

8. **FINDINGS**

- Students can access a vast range of information and resources that were unavailable in Traditional Class Rooms
- Digital Class rooms had made education mode Interactive and engaging
- Students can learn at their pace with digital tools like Adaptive learning.
- It will improved memory and increased fine and gross motor capabilities
- It Enhanced children Critical Thinking and Problem Solving abilities
- It enables individuals to develop new skills and competencies are essential in the digital age.

## PHOTOS



**DIGITAL CLASS ROOM TEACHING PUMS, Bodipatti**



**DISCUSSION WITH HM & TEACHER**



**Conduct on Pre & Post Test**



**DIGITAL CLASS ROOM TEACHING – MMS,Kanakkampalayam**

**1. Name of the investigator:** Mrs. M. Bobby Indira

**2. Name of the DIET:** DIET, Thirumoorthy Nagar

**3. Title:** “Improving the Understanding level of the Concept People’s Revolt among the VIII Standard students through Multimedia Package”

#### **4. Objectives of the Study**

- ❖ To study the impact of People’s Revolt
- ❖ To know causes for the People’s Revolt
- ❖ To find out the students' level of understanding the concept ‘People’s Revolt’
- ❖ To analyze the difficulties in understanding the concept ‘People’s Revolt’
- ❖ To adopt strategy – Multimedia Package and to remove the difficulties faced by the VIII standard students in understanding the topic People’s Revolt

#### **5. Sample**

The 26 students (12 boys and 14 girls) studying in standard VIII at Municipal Middle School, AranmaniPudur, Tiruppur Block, Tiruppur District are selected as sample.

#### **6. Tool**

Action researcher herself developed the questionnaire related to the topic as a tool. With the help of the tool, Pre-test was conducted to the students.

#### **7. Methodology**

Single group experimental design, pre- test – treatment- post-test was adopted in the action research.

##### **a. Interventional Strategies & Materials Used**

After conducting the pre-test and selecting the sample, interventional activities will be conducted by using the improvised teaching learning materials by the investigator. Since the present action research aims at enhancing the understanding the concept People’s Revolt, the action researcher used multimedia technology. Activities will be given, after that post-test will be conducted by the action researcher.

#### **7. Findings**

1. The average scores of the group before and after the treatment are 35.42 and 87.84 respectively.
2. The average score of the group after the treatment has increased. This is due to the Multimedia Package, video clippings and the various activities given as the treatment.

3. The scores of all the 26 students have increased in the post test. This shows remarkable improvement in understanding the lesson of the revolt of 1857 in India after the treatment given by the investigator.
4. Providing opportunities to know the revolt of 1857 in India they have already learnt gives them confidence in appreciating and honouring our country's Freedom Struggle Movement in their day today life.
5. Integrating technology and digital media with the traditional instructions made tremendous change in students learning.

## Photos with description



Investigator conducting pre-test



Investigator and Co-investigator describing the Mutiny



Students play with Activities



Students learning through Multimedia Package

1. Name of the Investigator: A.SUBRAMANI,
2. Name of the DIET: THIRUMOORTHY NAGAR, TIRUPPUR DISTRICT.
3. TITLE: **ENHANCING THE 5TH STANDARD STUDENTS ACHIEVEMENT IN THE CONCEPT ENERGY USING WORKSHEET METHOD AT THE GUDIMANGALAM BLOCK PRIMARY SCHOOL**
4. **OBJECTIVES OF THE STUDY**

To Study the effectiveness of the worksheet method in teaching science on teaching-learning at Primary school level.

To Study the difficulties of the worksheet method in teaching science on teaching-learning at Primary school level.

To create the interest among students and Teacher in learning Science at Primary school level.

#### **5. Sample :**

All the 06 students who were studying fifth standard in Panchayat union primary school, Chickanuthu, Gudimangalam Block, Tiruppur District.

#### **6. Tools :**

A questionnaire consisting of open-ended questions developed by the researcher has been used as a data collection tool in the study.

#### **7. METHODOLOGY:**

The present study experimental method with single group design was adopted.

#### **8. FINDINGS:**

The average science achievement of students taught by teachers using worksheets as a basis is higher. The students easily learn basic competencies that should be achieved through the worksheet learning process, The goal is to make students learn more effectively. The worksheets he made succeeded in increasing students' achievement its noted in post test score. Therefore, researchers conducted research on the development of Multiple Intelligences-based Science Worksheets which can facilitate the various intelligences possessed by each student. In addition, this can also be used as independent teaching material so as to increase student achievement. The worksheets are also effective for students in classes lacking readiness to learn science.





### 1. Name of the Investigator (ஆய்வாளர் பெயர்)

முனைவர். ம. சரவணகுமார், முதுநிலை விரிவுரையாளர்

### 2. Name of the DIET (பணிபுரியும் நிறுவனம்)

மாவட்ட ஆசிரியர் கல்வி மற்றும் பயிற்சி நிறுவனம்,

திருமூர்த்திநகர், திருப்பூர் மாவட்டம்.

### 3. Title (ஆய்வுத் தலைப்பு)

படவிளக்க அட்டைகளைப் பயன்படுத்தி ஆறாம் வகுப்பு மாணவர்களுக்கு விளையாட்டு முறையில் இன எழுத்துகளை அறிந்துகொள்ளும் திறனை மேம்படுத்துதல்.

### 4. Objectives (ஆய்வின் நோக்கங்கள்)

- இன எழுத்துகளை அடையாளம் கண்டு அறியச் செய்தல்.
- இன எழுத்துகளின் பிறப்பு, ஒலிப்பு முறை வேறுபாட்டை உணரச் செய்தல்.
- இன எழுத்துகளின் தொடர்பு வலிமையினைப் புரியச் செய்தல்.
- பட விளக்க அட்டைகளைப் பயன்படுத்தி விளையாட்டு முறையில் இன எழுத்துகளை அறிவதில் ஏற்படும் சிக்கல்களுக்குத் தீர்வு காணல்.
- இன எழுத்துகளை அறிந்து சொற்களஞ்சியத்தை மேம்படுத்தச் செய்தல்.

### 5. Sample (மாதிரி)

திருப்பூர் மாவட்டம், உடுமலைப்பேட்டை ஒன்றியத்தில் உள்ள கணக்கம்பாளையம் நகராட்சி நடுநிலைப்பள்ளியில் ஆறாம் வகுப்புப் பயிலும் 18 மாணவ மாணவியர்கள்.

### 6. Tool (ஆய்வுக்கருவி)

முன்தேர்வு, பின்தேர்வு வினாத்தாள், படவிளக்க அட்டைகள், பயிற்சித்தாள்கள் ஆகியவை செயலாய்வுக் கருவிகளாகப் பயன்பட்டன.

### 7. Methodology (ஆய்வு முறை)

### 8. Findings (ஆய்வின் முடிவு)

ஆறாம் வகுப்பு மாணவர்களுக்கு படவிளக்க அட்டைகளைப் பயன்படுத்தித் தமிழ் மொழியில் இன எழுத்துகளை அறிந்துகொள்ளும் திறனை மேம்படுத்தும் நோக்கில்



நடைபெற்ற இந்தச் செயல் ஆய்வின் முன்தேர்வில் சராசரி 26.11 % ஆக இருந்தது. பின்தேர்வில் இன எழுத்துகளை அறிந்துகொள்ளும் திறனின் சராசரி 82.22 % ஆக முன்னேற்றமடைந்து காணப்பட்டது.

### புகைப்படங்கள்



முன் தேர்வு



இடையீட்டுச் செயல்பாடுகள்



படவிளக்க அட்டைகள் விளக்கம்



மாணவர் இணைச் செயல்பாடு

**1. Faculty** : Dr.K.PRABAKAR, Lecturer, DIET, Thirumoorthinagar,  
Tiruppur District.

**2. Research Title** : “**Resolving the Problems in Understanding the Concept of Microorganisms among VIII Standard Students with ICT.**”

### **3. Summary**

#### **a) Introduction:**

Building new learning with the help of ICT implies cultural changes which may break through mechanistic paradigms that are still today characteristic of our school systems. The construction of knowledge becomes more and more a process of exposition to multiple learning opportunities, this exposition becomes a cause of a growing cognitive surplus. Therefore a new role for schools and teachers emerges, namely as far as the building of learning environments is concerned – where the ICT constitute an integrant meaningful part. These learning environments are favourable to the development of meaningful learning, when they are part of challenges that only the teacher can face. To overcome the school and teacher contextualization processes, makes possible to understand one thing at a time, although simultaneously it denies contexts. So that ICT gives an immense ocean of information, students pay attention to contexts to a large extent.

#### **b) Need and significance of the study:**

NCF 2005 recommends that teaching of science has to be recast so that it enables children to examine and analyze every day experiences, acquire methods and processes that will nurture thinking process, curiosity and creativity. The present text book deals needful concepts are cities expected to fulfil the social expectations in the competitive world. Science education should enable the learner to know the facts and principles of science and its applications, consistent with the stage of cognitive development, acquire the skills and understand the methods and processes that lead to generation and validation of scientific knowledge. The syllabus and content are clearly explained with many examples and different type of illustrations. The problem is making students to understand the concepts in Science in given time and they were express that they cannot deliver display and demonstrate all the content and different type of illustration given in the textbook. So the investigator planned to organize a training cum workshop for the teachers who are teaching science and develop follow up mechanism for address the issues in teaching science concepts in upper primary classroom.

#### **c) Objectives:**

- ❖ To identify and solve the problems which are responsible to minimize the understanding the concept.
- ❖ To understand the Microscopic organisms in and around.
- ❖ To make them realize that how this Microbes were used in our daily life with ICT.
- ❖ To improve the achievement of VIII Standard students in Science Concept of Microorganisms.

### **4. Methodology**

- a. **Design:** Single group experimental design will be adopted for this study. i.e. Pre-test-intervention - Post- Test - Experimental design.
- b. **Population:** 35 VIII Standard Students of PUMS,Kannamanaickanur Udumalpet block.
- c. **Sample:** VIII Standard students.
- d. **Research Tool:** Questionnaire.
- e. **Statistical Techniques used:** Percentile analysis.

**5. Findings:**

- ✓ All the VIII Standard students have shown the expected improvement in understand the concept of Microorganisms.
- ✓ The mean scores of students in Post-test (83.23%) is comparatively higher than the Pre-test (41.65%), it is concluded that the VIII Standard students were understood well about the Microorganisms.
- ✓ The impact of ICT was very useful tool for the easier and effective science teaching in the Upper primary level of students.
- ✓ The use of ICT in Science teaching leads to positive attitude of teachers as well as students.



## 6. PHOTOS



1.NAME OF THE INVESTIGATOR : V.SUGUNA

2.NAME OF THE DIET : DIET, THIRUMOORTHY NAGAR, TIRUPUR DISTRICT

3.TITLE : A Study on the difficulties of the primary school students in reproducing English sounds correctly through Multimedia Package

4.OBJECTIVES: To acquire knowledge of sounds

- To be able to read English fluently and accurately.
- To identify the sounds in words.

5.SAMPLE 28 (IV,V) primary students from MMS , Rudrappa nagar , Udumalpet

6.TOOL

Pre-test was conducted orally to the students.

7.METHODOLOGY

**Interventional strategies:**

**PHASE I:** Baseline/Pre-test will be conducted to the students to check the knowledge and understanding level of the students in the phonetics.

**PHASE II:TREATMENT**

Lecturer cum demonstration method, Multimedia package, Activities and Work sheet

**PHASE III:** Post-test will be conducted with the same questionnaire to check the students understanding level after repeated treatment. Videos related to phonetics with animation

Module contains phonetics sounds with words

8.FINDINGS

The data collected through Pre-test and Post –test from 28 students will be analyzed and interpreted.

The Mean scores obtained by the students will be calculated. The significance difference between the mean scores of the students pre-test and post-test will be calculated which is the aim of the study. The findings shows that the phonetics drill helps the students to read the words accurately and correctly.



## PHOTOS



Identification of the problem



Oral Test was conducted



Treatment is given with phonic cards



Activities given related to phonetics

1. Name of the Investigator: Dr. V.KOWSALYA DEVI, LECTURER

2. Name of the DIET: Thirumoorthy Nagar, Tiruppur

**3. TITLE: ENHANCING THE UNDERSTANDING LEVEL OF THE  
CONCEPT “CELL” AMONG UPPER PRIMARY LEARNERS  
THROUGH DIGITAL VIDEO PACKAGE**

4. Objectives:

- To know the understanding level of learners about the concept cell
- To make the learners understand the difference between prokaryotic and eukaryotic cell.
- To make them to understand the difference between Plant cell and Animal cell

5. Sample: 25 (VII, VIII) Upper primary students from MMS, Palaniandavarnagar,

Udumalpet

6. Tool: Questionnaire -25 multiple choice questions open ended questions

7. Methodology: Single group design was adopted. Baseline/Pre-test was conducted. Lecturer cum demonstration method, digital videos, Work sheets, Mobile App. The data collected through (Pre-test and Post –test) from 25 students was analyzed and interpreted.

8. Findings: After using different modes of teaching students understanding level about the concept cell increased which is clearly predicted in the score. Maximum students have shown the expected improvement in understanding the concept. It provides more room for interactive class activities. Student’s interestingly listened video and they can able to visualize the cell organelles. So the teachers can equip themselves in using technologies while teaching. Since students have access to invaluable resources and learning materials on laptops and digital devices and these types of apps can keep students connected to the classroom, even while they’re away from school, content related mobile apps can be used.

## PHOTOS

Checking the student Previous knowledge



Discussing with the HM



Brief outline for students



Conducting pre-test

