



No. 8 / 5 / 24

EMBASSY OF JAPAN
INDIA

NOTE VERBALE

The Embassy of Japan presents its compliments to the Ministry of Education and with reference to the former's Note Verbale No. 8/ 1 / 24 dated 9 January 2024, has the honour to inform the latter that the Embassy received a total of 30 nominations from the esteemed Ministry regarding the Teacher Training Students Course 2024 under the Japanese Government MEXT scholarship Program. Out of those 30 candidates, 25 (twenty five) candidates appeared for a writing test which was followed by the interview test conducted by the Embassy in February 2024. Henceforth, following **6 (six)** candidates have been selected for the aforesaid scholarship.

Sl. No.	Name	School	Host University	Preparatory Japanese Language Training
1.	Ms. Tanushri Sharma	Kendriya Vidyalaya, Nowrozabad	Osaka Kyoiku University	Osaka Japanese Language Education Center
2.	Ms. Aditi Kaushal	Kendriya Vidyalaya, Kapurthala	University of Tsukuba	University of Tsukuba
3.	Ms. Shivangi Mishra	Kendriya Vidyalaya, Mangaldoi	Osaka Kyoiku University	Osaka Japanese Language Education Center
4.	Ms. Ankita	Kendriya Vidyalaya, Bengaluru	Nagoya University	Aichi University of Education
5.	Ms. Pratibha Yadav	Birla Shishu Vihar, Pilani	University of Tsukuba	University of Tsukuba
6.	Mr. Nikhil Kumar	Kendriya Vidyalaya, Rishikesh	Tokyo Gakugei University	Tokyo Gakugei University

However, Ms. Ankita (Sl.No.5) has withdrawn her candidature from the scholarship due to the reason submitted by her to the Embassy.

The Embassy of Japan has further the honour to request the esteemed Ministry to kindly inform the authorities concerned accordingly, in order for the necessary formalities to be completed without delay so that the above candidates will be able to join the course in Japan for 18 months (including 6 months preparatory Japanese language training), starting from October 2024.

The Embassy of Japan avails itself of this opportunity to renew to the Ministry of Education the assurances of its highest consideration.

New Delhi, 5 September 2024

Ministry of Education
Shastri Bhavan
New Delhi

Cc: - Ministry of External Affairs, East Asia Division
- Navodaya Vidyalaya Samiti
- Kendriya Vidyalaya Sangathan
- Central Board of Secondary Education



SUMMARY FOR THE RESEARCH REPORT
PROMOTING INNOVATIVE PRACTICES AND EXPERIMENTS IN
EDUCATION FOR SCHOOLS AND TEACHER EDUCATION
INSTITUTIONS BY NCERT

(March 2024)

Submitted By: Ms. Shivangi Mishra (PGT Biology, PM SHRI KV Mangaldoi)

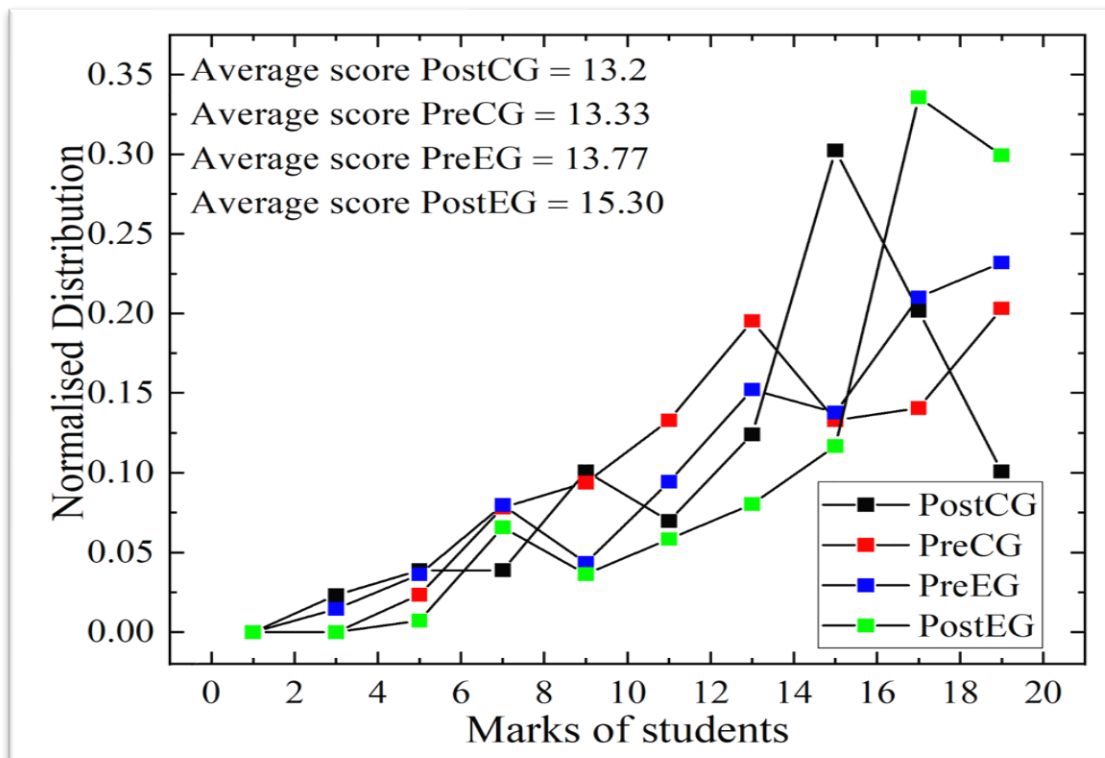
INTRODUCTION AND METHODOLOGY:

The report titled as **“Effectiveness of Non-digital Educational Games as a tool for Assessment as Learning for biological concepts of class IX Students”** is an action research. The study has used action research to compare traditional teaching methods with game-based learning. The research was conducted on class IX students. Section A of IX was taken as control group and Section B of IX was taken as Experimental group. Section A being the control group was taught through traditional Chalk and talk methods along with TLMs whereas section B was administered with various non-digital games of different topics related to the chapters. Data was collected through three pre and post-tests for three different chapters (Fundamental Unit of Life, Tissue, and Improvement in food resources), an epistemology survey to get the feedback of the students of experimental group, and self-grading by students after administration of the games. The non digital games used for the study were puzzles, science bingo, Treasure hunt, Turn the wheel, Science Taboo, Flash Card, Question framing, Riddles etc.

OBJECTIVES FOR THE RESEARCH:

1. To study the effect of non-digital educational games as a tool for assessment as learning the biological concepts of 9th grade students in the classroom.
2. To study the influence of non-digital educational games as a tool for assessment as learning on the confidence level, communication skills and personality enhancement of the students of the experimental group.
3. To study the extent of self grading by the students of the experimental group on the biological concepts of 9th grade.

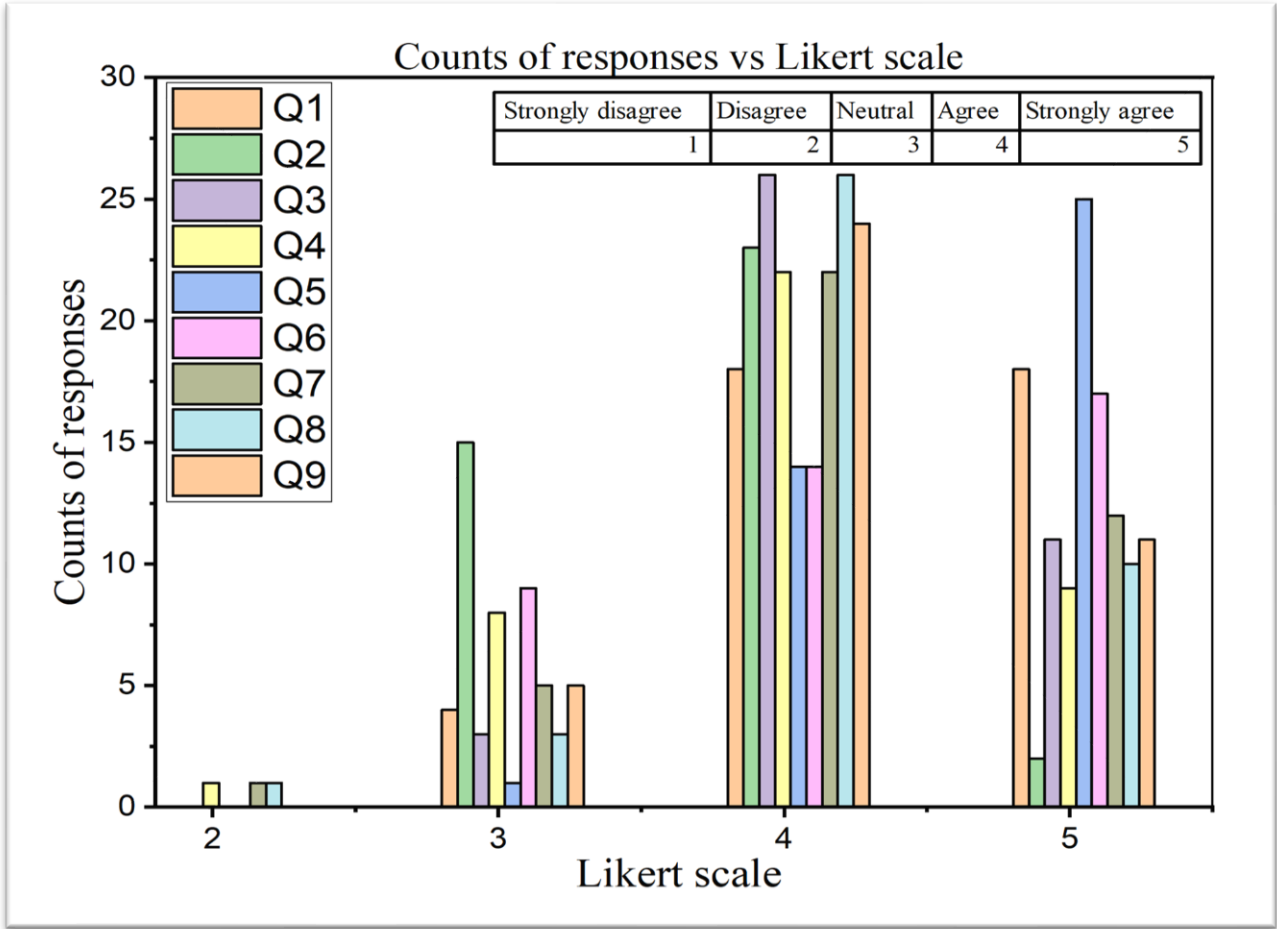
DATA ANALYSIS AND RESULTS:



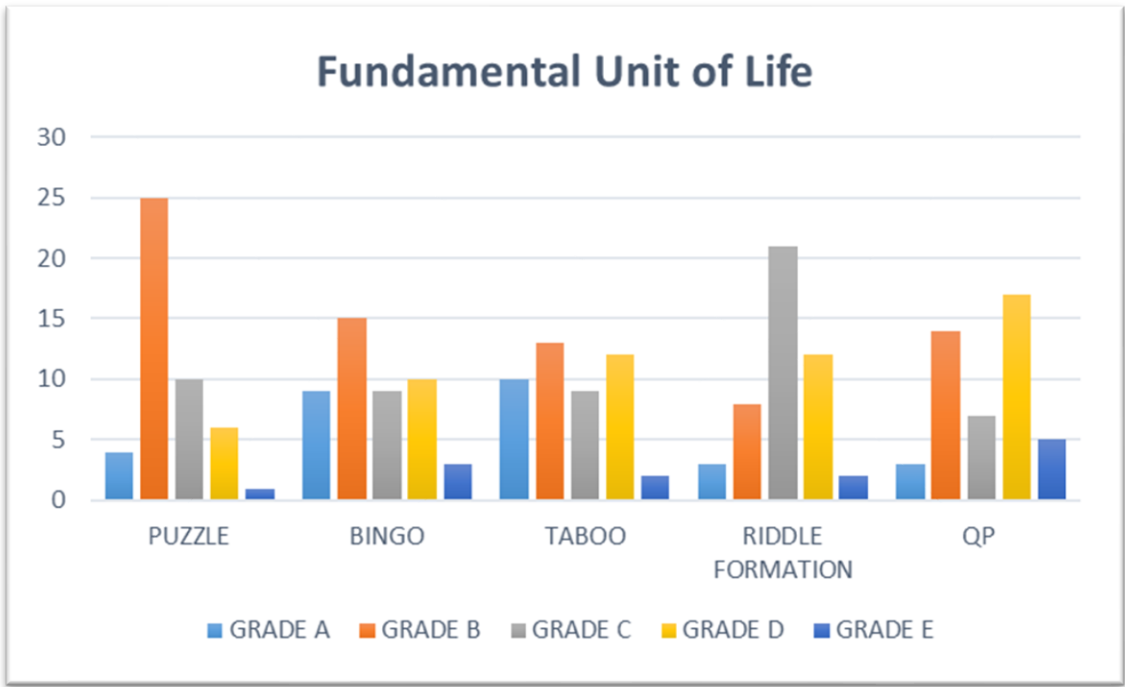
Graph 1: Comparison of central tendency of pre and posttests of experimental and control groups.

	Mean	Median	Mode	Standard Deviation
Pre-test Control Group	13.20	14	15	4.0
Post-test Control group	13.33	13	13	3.9
Pre-test Experimental group	13.77	14.5	18	4.28
Post-test Experimental group	15.30	17	17	3.81

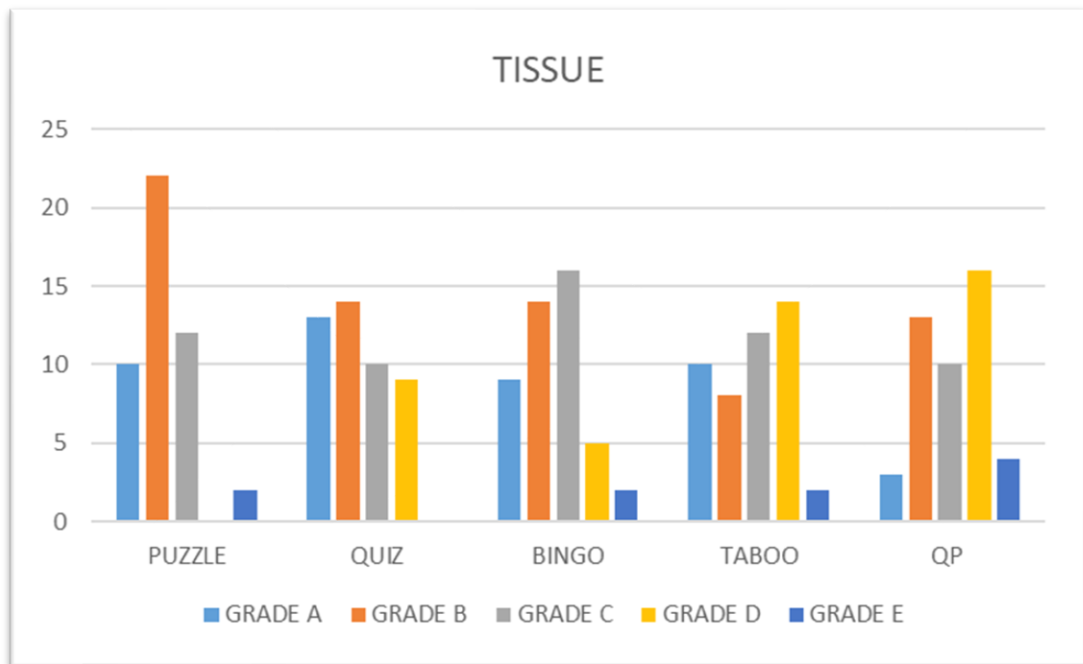
Table 1: Value of central tendency and standard deviation of achievement tests.



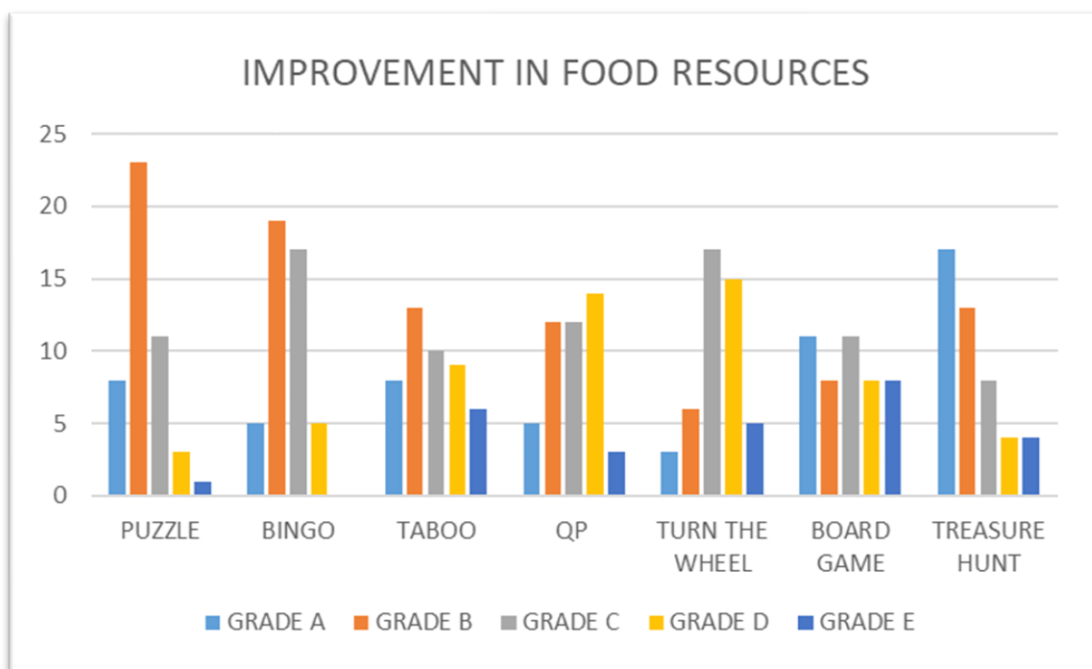
Graph 2: Responses for Epistemological Survey of Experimental Group.



Graph 3: Self grading for the chapter Fundamental Unit of Life by Experimental Group.



Graph 4: Self grading for the chapter Tissue by Experimental Group.



Graph 5: Self grading for the chapter Improvement of Food Resources by Experimental Group.

The data had a skewed distribution, so we used the Mann-Whitney U test and the Wilcoxon Signed-Rank Test instead of the T-test to analyse it. The games had a medium effect size, as measured by Cohen's D. The findings indicate that non-digital educational games had an effect on learning outcomes and significantly improved students' confidence, communication skills, and self-assessment abilities. In a survey, students rated the games highly, indicating a strong preference and perceived effectiveness. The students also felt comfortable giving themselves honest grades during the self-grading process. The action research concludes that non-digital educational games are an effective tool for enhancing the learning and assessment of biological concepts in 9th-grade students. The quantitative data is analysed by comparing the pre and post-test scores of both the experimental and control groups. Key findings are:

- The Mann-Whitney U test was used to compare the mean achievement scores of the control and experimental groups on the post-test. The result ($p\text{-value} = 10^{-6}$) led to the rejection of the hypothesis that there is no significant difference between the two groups.
- The Wilcoxon Signed-Rank Test was used to check two other hypotheses. Hypothesis A ($p\text{ value} = 1$) was not rejected, while Hypothesis B ($p\text{-value} = 1.1 \times 10^{-4}$) was rejected.
- The effect of the non-digital educational games was measured using Cohen's D, which was found to be 0.538, suggesting a medium effect of the intervention.
- Students in an epistemological survey strongly preferred the non-digital game, with most giving it a high rating. This supports the study's finding that such game-s can significantly improve biology learning.
- In the self-grading process students have sometimes given themselves grades like D and E, which indicates that they are very comfortable with grading themselves an honest grade.

Thus, we have found significant results of the research and the effectiveness of non-digital educational games as a tool for assessment as learning has been impressive.



Picture 1: Solving the Triangular Puzzle



Picture 2: Solving the Riddle



Picture 3: Playing Board Game



Picture 4: Question formation activity by different groups



Picture 5: Treasure Hunt



Picture 6: Playing Bingo

**Promoting Innovative Practices and Experiments in
Education for Schools and Teacher Education Institutions- National seminar 2023-24 (25-26 July, 2024)**

List of Project Coordinator(s) 2023-34

S.N	Topic/Title	Name & Designation of the Project Coordinator	Name of the School /Teacher Education Institutions with postal address e-mail phone number, fax number etc.
1.	Integration of Social Science Content and Target Language: An Inverted CLIL Approach	Dr. Himanshu Tripathi, Assistant Teacher, ved.van.ved@gmail.com 7668925453	Krishak Inter College Hinauta, Kaushambi, U.P-212207
2.	Animation as a Teaching Learning Tool	Mr. Amit Kumar Tiwari, TGT(WE) kvs.tiwari.9@gmail.com 8486018327/ 9099523329 & Ms. Poonam Kapil, TGT (Sci.) poonamkapil25@gmail.com 9460722244	Kendriya Vidyalaya, Bundi, Gate No.3, Rajatgarh Colony, Nainwa Road, Bundi – 323001, Rajasthan
3.	Genetics For “Gen Z” (Gamification Of Genetics)	Dr. Shilpa Raghuvanshi Chauhan, PGT Biotechnology, chauhan.shilpa@salwanpublicschool.com 9911008409	Salwan Public School,Rajendra Nagar, New Delhi-110060
4.	Professional sensitivity of Supervision in the implementation of Foundational Literacy and Numeracy	Mr. Satish Kumar Sharma, Principal, satishdhikauli@gmail.com , 9435523638	PM Shri Kendriya Vidyalaya Janakpuri, Delhi-110058
5.	Nurturing the Talents of Gifted Students: Strategies and Approaches-Innovative Teaching Approaches in Class IX	Ms. Vidhi Oberoi, TGT Biology, vidhi.oberoi@nd.balbharati.org , 9871775115	Bal Bharati Public School, Noida, Sec-21 Noida, Dist.-Gautam Buddha Nagar Uttar Pradesh - 201301
6	To develop sense of Practical life skill among the students of rural area	Ms. Monika Singhal, Assistant Teacher, singhalmonika60@gmail.com , 7982052865	Composite School Beeghepur, Block- Dhaulana,Dist.-Hapur, U.P.- 245101

7	To develop linguistic proficiency by using teacher-learning materials and activities in teaching words to students from primary level	Mr. Sushil Kumar, Principal, sushilkumar8755583770@gmail.com , 8755583770	Prathmik Vidyalaya Firozabad, P.O-Chilkana, Block-Sarsawa, Dist.-Saharanpur, Uttar Pradesh - 247231
8	Developing Numeracy Skills at Preparatory Stage using Indigenous Games	Dr. Atul Bamrara, Assistant Teacher, atulbamrara@gmail.com , 7983031351	Government Model Primary School Ganga Bhogpur, Post Office Ganga Bhogpur Malla via Swargashram, Pauri Garhwal, Uttarakhand – 249306
9.	अंग्रेजी भाषा के शब्दकोश में वृद्धि	Ms. Anju Verma, Head Teacher anjuv1411@gmail.com , 7376429137	Primary School Vitthalpur Masaudha, Ayodhya – 224127, Uttar Pradesh
10	प्राथमिक स्तर पर व्यावसायिक शिक्षा : कौशल विकास कार्यक्रम	Ms. Shweta Dixit, Assistant Teacher, shivshweta15@gmail.com , 9818999456	Primary School Salempur Kayasth, Block-Sikandrabad, Dist.-Bulandshahar, Uttar Pradesh – 203205
11	Indigenous Toys and Play Based Pedagogy to Assess the Learning Outcome in Numeracy for Foundational Year Learners	Dr. Gargee Mitra, Head, gargeemitra@yahoo.com , head-sscd@symbiosis.ac.in , 9850555784	Symbiosis Schools Central Directorate (SSCD), Symbiosis School, 15 th Lane, Kashinath Shastri Abhyankar Road, Deccan Gymkhana, Pune-411004, Maharashtra.
12	Augmenting Learning Parameters of Universal Design Learning through Art Integrated Approach in Mathematics	Dr. Vini Sebastian, Professor, vinseb2@gmail.com , 9664799979	St. Xavier's Institute of Education (Autonomous), 40-A New Marine Lines, Opp. State Bank of India, Churchgate, Mumbai-400020, Maharashtra
13	The Impact of Mathematics-Enhanced Van Hiele Model (VHM) Learning Activities Based on Experience-Language-Pictorial-Symbolic-Application {ELPSA} framework on Spatial Reasoning of Students Engagement in Mathematics at Elementary Level	Dr. Ashutosh Prabhakar, TGT (Maths/Science) ashuprabhakar.007@gmail.com 7277578697	Rameshwar Middle School, Salempur, Tekari, Gaya-824236, Bihar

14.	Effect of Steam-based Learning on Mathematical Creativity of Middle School Students	Dr. Tarun Kumar Tyagi, Assistant Professor, taruntyagi@cusb.ac.in 9411230445 & Lt (Dr.) Pragya Gupta, Assistant Professor, pragyagupta@cusb.ac.in 9508376400	Central University of South Bihar, Gaya SH-7, Gaya Panchanpur Road, Village- Karhara, Post- Fatehpur, Gaya- 824236, Bihar
15	Effect of Socio-cognitive Approach based Activities on Writing Skill of Middle School Students	Dr. Ravindra Kumar, Associate Professor, ravindra.kumarte01@gmail.com 9990713343 /6200957082 & Prof. Ravi Kant, ravikantdr@cusb.ac.in 9870980107	Now CIET, NCERT, New Delhi
			Central University of South Bihar, Gaya- Panchanpur Road, Tikari, Gaya- 824236, Bihar
16	Innovative Learning Methods for Science Concepts through School Herbal Gardens- A Novel Approach	Mr. A Guruprasad, Lecturer in Science (Botany), DIET, Kaliyampoondi Kanchipuram- 603 402, Contact no-9943519795 gprasad26july@gmail.com	DIET, Kaliyampoondi Kanchipuram- 603 402 Tamil Nadu
17	School Academic Supporting Functionaries' Development Initiative- SADI. STRENGTHENING SCHOOL SUPPORT FUNCTIONARIES THROUGH ACTION RESEARCH	Dr. Hariprasad G V DIET, B H Road, Shivamogga- 57 201 Contact no.- 9964314575 harivana@gmail.com	DIET, B H Road, Shivamogga- 577 201, Karnataka
18	Imbibing Teaching Skills and Moral Values Through Story Telling	Mr. S. Rajakumar, Lecturer, DIET, Tholkappier Street, Ashok Nagar Lawspet, Puducherry- 605 008 Contact no. 9994203828, rajkumarpavitra@yahoo.com	DIET, Tholkappler Street, Ashok Nagar Lawspet Puducherry- 605 008 Phone: 0413-2251243
19	Effectiveness of mathematical content knowledge of D.El.Ed student teachers in the facilitation of mathematics	Ms. Thanuja K S, Lecturer, Sacred Heart Teachers Training Institute Carmel Convent Campus, 4 th T Block, East Eng Main Road Jayanagar, Bengaluru- 560 041 Thanunagaraj13@gmail.com , contact no-9900024573	Sacred Heart Teachers Training Institute Carmel Convent Campus, 4 th T Block, East Eng Main Road Jayanagar Bengaluru- 560 041, Karnataka

20	Exploring of Science by Preparing Learning Resources from Low Cost and No Cost Materials by Student Teachers of D.El.Ed. in RV Teachers Training Institute, Bengaluru	Smt. K H Mamatha Lecturer, Email: mamathaprakash2008@gmail.com Contact no. 9916212566	RV Teachers Training Institute, No. 11, 31 st Cross, 11 th Main, Jayanagar 4 th Block, Bengaluru – 560 011, Karnataka,
21	A Study of factors that influences the lack of Speaking skills in D.El.Ed Students of Dharwad Dist.	Ms. Sandhya G Vaidya, Lecturer, sandhya19067@gmail.com Contact no.- 9986621404	Vanita Teachers Training Institute, Near NTTF, Ram Nagar, Dharwad – 580 001, Karnataka
22	A study on facilitating the use of innovative learning resources/method in teaching the basic four operations in learning Mathematics for first year D.El Ed students	Ms. Jasmin R B Moras, Lecturer, Email; jasmine.moras@gmail.com Contact no.- 9880107283/ 8618250702	Rosa Mystica Teacher Training, Kinnikambla, Mangaluru - 575 014 Dakshina Kannada, Karnataka
23	Do and Play with no cost play tool	Mr. Chandru M PST, chandbavan@gmail.com 9787715291	Mayor Ramalinga Counder Government Primary School St,Mettupalayam, Puducherry – 605009
24.	Create to learn- An innovative approach to achieve 21 st century skills to enhance the Students into Masters by using Scratch 3.0	Ms. R Porselvi, PST, Selvisabarivignesh82@gmail.com Contact no.-8754172748 & S. Sabarinathan, PST sabarivignesh82@gmail.com , 9659446787	Government Primary School, Indira Nagar, Zone-II, Puducherry – 605006
25	Integrating Social Emotional Learning with English Literacy skills	R Nithia Primary School Teacher, dse00005690@dsepd.edu.in Contact no.-9789693810/ 8610811401	Government Primary School, Thiruvandarkoil (Zone V) Villupuram –Pondy East Main Road Thiruvandarkoil, Kandamangalam post Puducherry – 605 102
26	Learning Time measurements through GOALS Pedagogy	Ms. A Sharmila Begum, Graduate Teacher, sharmi532007@gmail.com Contact no. 9488386444	Government Higher Secondary School, Bommanahalli, Karimangalam Block, Dharmapuri, Tamilnadu – 635 11
27	Fostering computer literacy skills among students through activities	Ms. P. Saranya, PST, saranyakar86@gmail.com contact no. 8667271354, 9524527149	Government Middle School TN Palayam TN Palayam Main Road Puducherry-605 007

28	Empowering B.Ed. Trainees for Using IDEA Method in LAC Approach	Dr. C. C Kurian, Associate Professor, kuriancc9@gmail.com , Contact no.-9446132340 & Rev. Dr. Johnson Mathew Principal	St. Thomas College of Teacher Education, Mylacompu, Thodupuzha, Idukki-685608, Kerala, 9947940525
29	Pragya : A School Programme on Stimulation of Analytical Thinking through Mathematics	Mr. V Eswaran, Assistant Professor in Mathematics, dreswaransrkv@gmail.com , 9486689789	Sri Ramakrishna Mission Vidyalaya College of Education (Autonomous) Periyanaickenpalayam, SRKV Post, Coimbatore District, Tamilnadu-641 020, 9443655403
30.	My IND – EDUGA (My INDigenous EDUcational GAMES for understanding Science and Mathematics of School Curriculum)	Dr. K.P. Kannan, Director of Physical Education, kpkannandevi@gmail.com , Contact no-8903915059 & Dr. D.S. Prasobh Madhavan, Assistant Professor of English, dsp.madhav@gmail.com , contact no.-7598623797	N.V.K.S.D College of Education (Autonomous) Attoor, Kanniyakumari District – 629177, Tamilnadu 9446969747
31	Empowering ADHD Students : Effective Teacher Strategies for Academic and Behavioural improvement	Smt. S R Sheelavantar, Assistant Teacher, sudhalekhana@gmail.com , contact no.-9449419541	Government High School, Vishweshwar Nagar, Hubballi- 580 031, Karnataka 9886571877
32	Creation of student writers, authors and poets through Innovative activity	Ms. Brinda. D Graduate Teacher (English), raneekutti@gmail.com contact no.-8072272349, 9344932835	Government High School Melpattabakkam Post Cuddalore Dist. – 607 104, Tamil Nadu
33	Effectiveness of Educational Games as a Tool for Assessment as Learning for Biological Concepts of Class IX Students	Ms. Shivangi Mishra, PGT-Biology shivangimishra2596@gmail.com , 9473346465	Kendriya Vidyalaya, Mangaldoi, Block Chowk, Mangaldoi, P.O Mangaldoi, Darrang District, Assam, India – 784125