THE IMPLEMENTATION OF COMPUTER – ASSISTED INSTRUCTION OF GRADE 5 LEARNERS IN BOLINAO CHRISTIANS SCHOOL INC.

SHERNA B. CARILLO
TEACHER
BOLINAO, PANGASINAN, PHILIPPINES

Abstract : What is the status of the implementation of computer – assisted instruction in Bolinao Christians School Inc. District II in terms of:

- Number and percentage of teachers trained in the use of computer
- Number and percentage of teachers using the computer
- Grade 5 learners who are exposed to computer – assisted instruction.
- What is the level of performance in an achievement of the Grade 5 learners exposed to computer – assisted instruction in selected private schools in Bolinao Christians School Inc. District II?
- Based on the findings, what recommendations can be proposed to enhance the use of computer – assisted instruction Grade 5 in Bolinao Christians School Inc. District II?

Status of the implementation of Computer-Assisted Instruction in Bolinao Christians School Inc. District II.

- In terms of number and percentage of trained teachers, majority of the Grade IV-VI teachers had undergone in-service trainings in line with computer-assisted instruction.
- There were only fifteen (15) teachers using computer-assisted instruction in selected schools in Bolinao Christians School Inc. District II.
- The Grade 5 learners are the only pupils exposed to computer assisted instruction, at the selected schools in Bolinao Christians School Inc. District II.

Level of performance of the Grade 5 learners in the Achievement Test Exposed to computer-Assisted Instruction.

- The Grade 5 learners who are exposed to computer-assisted instruction are "Fair" in their level of performance in computer instruction.

Proposed Recommendations to enhance the use of Computer-Assisted Instruction in Bolinao Christians School Inc. District II.

- The proposed recommendations can enhance the use of computer-assisted instruction in Bolinao Christians School Inc. District II.

Conclusion:

- Generally there is still a need to train computer Teachers in Schools in Bolinao Christians School Inc. District II to enhance their competence in teaching the Grade 5 learners along computer-assisted instruction.
- The level of performance of the Grade 5 learners can still be improve through the assistance of the computer teacher.
- The proposed recommendations can help the computer-teachers to improve their computer teaching skill and competencies.

Recommendations:

- The proposed recommendations should be forwarded to DepEd authorities for implementation.
- The computer teachers should attend more relevant in-service trainings in line with computer-assisted instruction.
- All schools should be provided with computer units.
- Similar study be conducted in region, division to validate the findings of the study.

IndexTerms – Instruction, Implementation. Grade 5 learners, assisted

I. INTRODUCTION

1.1 Rationale

As we go through the third millennium, the global community faces new challenges. In view of radical technological innovation, one of the challenges is coping with new ways of doing things. To meet the challenges of global competitiveness the elementary education curriculum set the goals of quality and excellence, relevance and responsiveness, access and equity, and efficiency and effectiveness as the main trust of the Department of Education. Education empowers people and gradually opens opportunities even to the poorest of the poor. To improve the quality of life, one has to attain quality education. (Eisma, 2022).

The desire to change stems not only from the demands to improve the quality of life, but also from the pressing need to be active participants in the fast changing world as a stipulated and mandated in the 21st century. It is necessary that schools especially in elementary education should take a less conservative role and explore the technological advance of computers. The increase in the use of computer technology in today's education has a profound effect on the future benefits in all areas of society. Futurists from all disciplines point Asia and Pacific Countries focused of the 21st civilization. We have to score some advances in our schools by integrating the new communication technologies into our traditional classroom approaches.

Unlike in the past, most public information is no longer passed from person to person, broadcast street to street by the town crier. Today, it is "mediated" through the channels of mass communication, telecom, file, video, newspapers, radio, computers, internet and cellular phones. Opinions, arguments entertainment and "social information" are all carried by the mass media. They are integral parts of modern life, learners come to school with a wide range of experiences with these multimedia texts. All these day to day experiences become part of the learners schemes.

And as a part of media education, computer assisted instruction for learners, bring an enormous amount of prior attention for they have already in a certain sense become the "experts ". As students argue and discuss about various experiences, it is crucial that teachers come to reorganize and validate the knowledge students have already done. This kind of change will require integrating traditional education into the future of digital technologies. Among the challenges that educators face as they approach the digital is to know how to effectively and creatively make learners have access to modern technology to significantly impact towards their instructional needs.

Keeping up with the advancements of technology is to keep up with development. As cited by Noble (2002) ,recent year's changes in elementary education show that we have entered a new era in education, one which is rapidly drawing the halls of basic education into the age of automation which is often justified as an inevitable part of the new "knowledge-based" society. The computerization of all aspects of society has made computer literacy a must for officials and employees and future recruits in government and non–government organizations. Everyone should study the basics underlying ICT operation and applications in order to remain competitive in the job market and to keep up with the trend. This demands trained personnel in the ICT particularly in computers, and that of economic development can also be attained by having a pool of trained personnel in the ICT industry (Newsweek, January 2015).

Today, teachers are considered as the keystone of the country's bid to become globally competitive so they must, and foremost, acquire world class knowledge and skills in order to develop the quality of specialists and manpower required to launch the economy on a half – growth path (Eisma, 2013). Teachers encounter problems especially on how they can possibly enhance better transfer of learning, considering the nature and background of the learners and how they can possibly cater to the learners needs.

Andong and Florencio (2018) suggest that teachers should spend a great amount of time in learning some basic skills in computer literacy, act as resource persons, or ICT coordinators. Professional development will encourage teachers to collaborate in developing their subject curriculum and identifying innovative teaching methodologies. Opportunities for learners and teachers to experiment on identifying preferred learning styles and differentiated pathways are encouraged. Infusing Information and Communication Technology (ICT) across the basic curriculum to enhance learning and the management of learning leads teachers to an understanding of how to transform their teaching skills and competencies as well as the learning of their learners participation. The Department of Education (DepEd) agreed on what Andong and Florencio suggested by implementing the DepEd Computerization Program in different years (2013, 2014, 2016,)by distributing computer packages consisting of computer hundred (600) public elementary schools nationwide to enhance and improve the skills of the teachers.

A learner-centered computes environment could enhance the acquisition of information processing skills by learners and could help transform the education process into a more humane and learner – centered one. Computers are perceived as a powerful teaching aid and used mainly to amplify or extend human capabilities. Computer applications are designed to increase the efficiency and effectiveness of the instructional process and hence, reinforce the existing goals and practices.

Software programs illustrate concepts more clearly through this technology than through traditional means such as lecture, discussion, or conventional laboratory activities. CAI also economizes on facilities, material and instructional time. In short, CAI is a learning aid rather than a teaching aid. Education has to center on how learners learn. Teachers cannot lead the learning alone .They can only encourage the learning process by presenting ways of knowing, thinking and finding out about the world among their learners. Through doing, seeing and manipulating symbols, learners construct their own realities and their own understanding.

One of the alternatives that teachers can use is the Computer – Aided Instruction also known as CAI. In CAI, the teaching process emphasizes learning rather than teaching. It allows learners to learn directly from a computer, learners should, therefore, must have access to exchange, and process information independently with the teachers at their own pace.

Information that helps teach or encourage interaction can be presented on computer in the form of text or in multimedia formats, which include photographs, videos, animation, speech, and music. The guided drill is a computer program that poses questions to students, return feedback, and selects additional questions based on the students' responses. Recent guided drill systems incorporate the principles of education in addition to subject   matter knowledge into the computer program (Torio, 2012).

It is on this account that the researcher was motivated to conduct this study on the implementation of computer-assisted instruction in the selected learners in Private Schools in Bolinao.

1.2 Theoretical Framework

The Engagement Theory (Kearsly, 2021) explained that learners must be meaningfully engaged in learning activities through interaction with others and worthwhile tasks. Technology can facilitate engagement in ways which are difficult to achieve. It is intended for technological – based learning and teaching. Engagement theory is different from many older models of computer –based learning in which the emphasis is on individualized instruction interactivity. Engagement theory does promote interaction, human interaction in the context of group activities, not individual interaction with an instructional program. The latter form of interaction tended to be measured by single responses whereas engagement requires assessment of larger units of work (e.g., reports, programs, user satisfaction).The difference between engagement and interactivity reflects the shift in thinking about computers in education as communication tools rather than as some forms of media delivery devices. Furthermore, engagement theory places a great deal of emphases on providing an authentic (i.e., meaningful) setting for learning, something not present in previous models. The largest benefit of technology is the easy and fast access that has come from the Internet .Almost any subject matter, research papers, and technical documents are available to anyone. Communication has also become much simpler through the use of the Internet. It can be said "that e- mail does not replace or reduce traditional communication; in fact, such interaction increases". Discussion lists also allow learners to tap into expertise that otherwise would have been inaccessible. Instead of relying on a learners in an adjacent seat for information, one command sends a plea for help to the entire class, usually resulting in at least a handful of responses within a few hours (Luke, 2010).

1.3 Conceptual Framework

"The legal basis was further strengthen by RA 9155 – Governance of Basic Education Act of 2001 where it was mentioned in Rule 1 of Section 1.1 that all educational institution shall broaden scientific and technological knowledge and promote vocational efficiency. The department of Education Order No. 76 series of 2010 entitled Policy Guidelines on the implementation of the 2010 in both Elementary and Secondary Education Curriculum states; that there is a need to improve the areas of national learning strategies, school based management, teacher education and development, resource mobilization and management, and quality management system, among others as a demonstration of DepEd's commitment to provide the learners the best education that they deserve".

1.4 Statement of the Problem

This study assessed the implementation of computer – assisted instruction in Grade 5 in Private Schools in Bolinao during the school year 2024-2025.

Specifically, it sought to answer the following sub-problems:

- What is the status of the implementation of computer – assisted instruction in Grade 5 in Private Schools in Bolinao in terms of the following:
- Number and percentage of Grade 5 teachers by school trained in the use of computer.
- Number and percentage of teachers using the computer.
- Grade 5 learners who are exposed to computer– assisted instruction.
- What is the level of performance in an achievement of the Grade 5 learners exposed to computer – assisted instruction in selected schools in Private Schools in Bolinao?
- Based on the findings, what recommendations can be proposed to enhance the use of computer – assisted instruction Grade 5 in Private Schools in Bolinao?

1.5 Basic Assumptions

This study is anchored on the following basic assumptions:

The implementation of computer – assisted instruction in Private Schools in Bolinao can be fully implemented.

The level of performance of the learners with computer – assisted instruction can still be improved.

1.6 Scope and Delimitation of the Study

The main concern of this study is to assess the implementation of computer – assisted instruction in Private Schools in Bolinao. The study involved all Grade 5 learners in selected elementary schools in Private Schools in Bolinao. The implementation of the computer – assisted instruction was limited to the status of the implementation of computer – assisted instruction in terms of the number of trained teachers in computer, number and percentage of teachers expressed to computer – assisted instruction and the Grades of learners who are exposed to computer – assisted instruction ; and the level of performance of the Grade 5 learners in an achievement test exposed to computer = assisted instruction in selected school in Private Schools in Bolinao. Based on the analysis of the findings, a proposed recommendation to enhance the use of computer – assisted instruction in Private Schools in Bolinao.The implementation of the proposed recommendation   beyond the limit of this study, due to time constraints.

1.7 Significance of the Study

The findings of this study would be a great help to the following:

The School Administrator. The result of the study would encourage them to be involved in curriculum development to help the computer teachers and to direct having to the needs and abilities of the learners.

The Computer Teachers. This could lead them to a more efficient and productive use of the teacher's time.

The Learners with Computer – Assisted Instruction: They will be benefited who are end the beneficiaries of the proposed recommendations.

The Researcher Herself. As future computer teacher, she has made aware of the level of performance of the Grade learners she is teaching, and likewise to improve computer instruction by the teachers.

Other Researcher. This will serve as frame of reference to validate the findings of the study.

1.8 Definition of Terms

The following terms used in this study are operationally and /or logically defined.

Computer- Assisted Instructions. It refers to the subject offered in the Basic Curriculum taken by Grade 5 learners.

Computer Teachers. There are the teachers, who are teach computer –assisted instruction and respondents of this study.

Private Schools in Bolinao. It refers to the locale of the study where the teacher respondents are presently teaching during the conduct of the study.

Implementation. It refers to way or made of carry out providing or fulfilling to improve conditions of school program.

Level of Performance. It refers to the academic performance of the Grade 5 learners in an achievement test with computer assisted instruction.

1.9 LITERATURE

Stair (2018) aptly described that computers have had profound on education in general. He introduced the term computer literacy and compare that knowledge of computer systems is as important as knowledge of Basic English and Math. He also certified that any student who does not receive some type of computer related schooling is illiterate and ill – prepared to face life.

O ' Leary (2014) agreed in the book of Stair in which he described how 20th century brought us the dawn of Information Ageb and continued to bring us the dawn of Information Technology. He also emphasized that the indication of rapid rate of change will not be slowing but increasing. The computer literacy on the 21st century will be undoubtedly become prerequisite in whatever a career a student chooses.

The ability of even modest computer systems to store , organize , and retrieve very large amounts of information brought about changes in a very nature of many business offices. Indeed many industrial, academic, and governmental processes have been irrevocably changed by the computer.

Computers have begun to meet the barrier imposed by the speed of light in achieving higher speeds. This has led to research and development in the arms of parallel computers. Continuing demand for more processing power has to lead significant changes in computer hardware and software architectures, both to increase the speed of basic operations and to reduce the overall processing time (Encyclopedia of Science and Technology, 2017).

The website http://www.indianchild.com/computers blessing or curse.htm talked about the computer education concerning our young children. They explain how children affect in using computer. They are growing up computer literate and will have that a huge advantage. Computer literacy is becoming a huge job qualification and feeling comfortable with one will put them a step ahead. Computers also criticized in this web site and explain the bad effect in using computers. Children are learning to read and write with computer games instead of house made flash cards. They are reading their bedtime stories online instead of in bed with their parents. Slowly traditions are being broken and computer is becoming a child's learning tool. Many parents are buying computers learning games instead of board games and pop – up books.

Over all, children can benefit from computers if they are used wisely. Parents that supervise their children when they are on the computer can ensure that everything is happening safely.

In the article of Freeopp (2017), he discussed that computers are prevalent in every household and business today. He explained how computers explode in the business like requiring all employees to have computer skills. A computer with thru proper business software can keep business running very smoothly. From scheduling appointments to printing receipts and tracking sales, computers have become a necessity and a valuable asset for most business today. And whether a person or company has a typical brick and mortar business or a home business, the time saving aspect of using the computer pays for itself. Additionally, with today's need for business to have an online presence, more businesses have increased their sales and clientale by developing a business website.

1.10 Deped Computerization Program

The government not only concentrates on the use of ICT in procurement procedures but it is also integrated in education. The Department of Education released DepEd Memorandum No. 125 Series of 2018, entitled "Implementation of the 2013, 2014, and 2016, DepEd Computerization" which the Department distributed a computer package consisting of computer hardware and software and teacher training for six hundred (600) public Elementary schools nationwide. In this case, computer education was incorporated in the school curriculum to enhance the skills of the students.

The news entitled AMA Boosts Computer aide Instruction (http://www.ames.edu.ph/news/sept2003/090803.htm) emphasized that they will train the faculty members to construct CAI headed to start the new teaching methods.

Technology Information and Communication

Information and communication Technology (ICT) as an essential tool for development will help shape a new better mental model through wider access to better information and resources and greater connectivity that eliminates isolation and ignorance of today's world. It can become a beneficial source that empowers individuals, communities, and nation to better manage their lives. (Anderson and Yerbury, 2010).

In the field of education, according to Queau (2010), information technologies are viewed as a means of complementing traditional educational techniques to enable education systems to adapt or the different learning and training needs of societies. Computer simulation, telematics, teleconferencing, aloof side educational TV or radio, have great potential to reach larger audiences than to traditional classroom process, and to make learning effective , attractive and stimulating . The increasing variety of interactive media enlarges the scope and possibilities of self – directed learning.

Moreover, Anderson and Yerbury (2010) asserted that in the context of an emerging global information society, information literacy is increasingly presented as a key challenge to educators and to educational authorities. School library media specialists worldwide have responded energetically to this challenge. Today school library are increasingly based on the assumptions that information skills instruction is a valuable and essential part of the school's education programs; that these skills of location and access to library resources; that these skills should be taught within the context of the school's curriculum; and that teaching of these skills can be enhanced by the use of innovative instructional methods.

1.11 The Role of Computer Education Today's Teaching And Learning Computer Education

Learning has been highly compartmentalized into subject areas. Students have typically been treated as if they are all the same things at the same time. They also have been forced to the passive members of their community. These features of our educational system must all change for they are counter – productive, harmful to our people, our society, especially in the information age (Reighluth, C.M. 2018).

In the advent of information and communication technology, the need for a new paradigm in education is necessary. The use of technology has growth dramatically to help motivate students making them active participants in their own education.

1.12 Feature of CAI Programs for Teachers and Student

Orilia (2018) enumerated some features of Computer Aided Instruction that a student will never regret to use. (1) It lets the students proceed at their own pace as they can utilize CAI whenever they choose. (2) Student can repeat a CAI a study unit any number of times until they master it. (3) The self-testing portion of each CAI module lets the students gauge his/ her progress. (4) It also gives the teacher a record of that student's performance. (5) Students can also use CAI to review tests.

The website http://www.xu.edu.ph.mawi.chap2. Htm (2012) provided five methods of delivering CAI, namely: drill and practice, tutorial, demonstration, simulation, and instructional games.

Drill and practice is a method very common and used to increase fluency in a skill or body of knowledge or to reinforce an existing skill or body of knowledge. This type of CAI is good for basic knowledge where rapid student response is desired.

In a tutorial, the computer instructs and introduces new content to learners in the same way a teacher would in a one – on one situation. It is used in any area of remediation when learners lack necessary background knowledge, enrichment when learners wish to go beyond what is basic, introduction of content to all learners.

Demonstration sometimes called presentations and used as aid to the teacher in the primary instruction of students.

A simulation model imitates a real or virtual system based on the theory of the model. It is used to simulate a particular environment and test effects of various interventions on the environment.

Instructional games are designed to be fun for students which increase the chance of learning concepts, knowledge or skill embedded in the games.

The research entitled "Computer Aided Instruction –Some Reflection" (http://www.psychology.unp.ac.za.computai .htm) emphasized that large number of students who lack computer literacy have problems when implementing computer based courses.

Urbano (2017) conducted a study entitled Development and Evaluation of Computer Assisted Instruction Modules of Chemical Bonding and Molecular Chemistry". The study aimed to evaluate the subject matter, objectives, clarity and explanation, presentation and appeal to the students and test items of the prepared modules. Special features of the CAI modules were use lively colors in the screen design use of animated cartoon characters that served as participants in the conversational format of the lesson. The modules were found to be effective as revealed by the results of the pre and post test administered to the students.

II. METHODOLOGY

This chapter presents the research design, sources of data, instrumentation and data collection and tools for data analysis relative to the different sub-problems raised in the study.

2.1 Research Design

This study used the descriptive methods of research with the use of the questionnaire as the main data gathering instruments in the assessment of the implementation of the computer-assisted instruction in Grade 5 Private Schools in Bolinao during the school year 2024-2025. The assessment included the status of the implementation of the computer-assisted instruction in Grade 5 in Private Schools in Bolinao in terms of the number of percentage of Grade 5 trained teachers in use of computer; number of percentage of Grade 5 teachers using the computer-assisted instruction and level of performance of Grade 5 learners who are exposed to computer-assisted instruction. The output of the study is proposed recommendation to enhance the use of computer assisted instruction in Private Schools in Bolinao.

2.2 Sources of Data

The main source of data were the Grade 5 learners in Private Schools in Bolinao. Table 1 is the distribution of subject respondents.

Table 1
Distribution of Respondents by Grade Level

N=75

Grade Level	Number of Subjects Respondents
Grade V-A	35
Grade V-B	25
Grade V-C	20
Total	75 Learners

2.3

Instrumentation and Data Collection

The main data gathering instrument was a set of questionnaire relative to sub-problems raised in the study. Part I- deals in the status of the implementation of computer-assisted instruction in Private Schools in Bolinao using variables, number and percentage of teachers trained in the use of computer; number and percentage of the teachers using computer and grades of learners who are exposed to computer assisted instruction. Part II – the level of performance of the Grade 5 learners with computer-assisted instruction using the test results in an achievement test. After formulating the questionnaire the researcher showed to her thesis adviser for his suggestions which was incorporated in the final draft of the questionnaire.

The researcher asked permission to the Schools Division Superintendent Schools Division Office I Pangasinan to float/administer the questionnaire to the ICT respondents, after which the researcher distributed the questionnaire with the assistance of the school heads in the different schools in Private Schools in Bolinao. The researcher personally distributed and retrieved the questionnaire to ensure 100% retrieval.

2.4 Tools for Data Analysis

The different sub-problems raised in the study was tabulated and analyzed and interpreted. For sub-problem 1 and 2 frequency and percentage was used. The formula is:

$$P = \frac{f}{N} \times 100$$

Where:
P= percentage
F= frequencies
N= total number of respondents

III. PRESENTATION, ANAYSIS AND INTERPRETATION OF THE DATA

This chapter presents the analysis and interpretation of the data gathered relative to the different sub-problems raised in the study.

3.1 Status Of The Implementation of Computer- Assisted Instruction In Private Schools in Bolinao

This section presents the status of the implementation of Computer-Assisted Instruction in Private Schools in Bolinao. Table 2, presents the data in answer to sub-problem 1.

Table 2
Status Of The Implementation of Computer Assisted Instruction In Private Schools in Bolinao
In terms of Number of Teachers Trained with Computer Assisted

N= 30

School		Percent
Señor Santiago Learning Center School	5	16.67%
Bolinao Christian School		
St. Hannibal Educationa Center School	5	16.67%
Kaj-Play and Learn Center of Bolinao	5	16.67%
Friedrich Froebel School	7	23.33%
	8	26.67%
Total	30	100%

Table 2, presents the status of the implementation of computer assisted instruction in Private Schools in Bolinao in terms of number of teachers trained with computer assisted. It must be noted from the table that are only thirty (30) teachers trained in computer assisted instruction and coming from different schools in Private Schools in Bolinao, this implies the need to trained more teachers in computer-assisted instruction if only to realize the value of computer instruction.

Table 2 b
Status Of The Implementation of Computer Assisted Instruction In Private Schools in Bolinao In Terms of
Numbers and Percentage of Teacher Using Computer

School		Percent
Señor Santiago Learning Center School	5	16.67%
Bolinao Christian School		
St. Hannibal Educationa Center School	5	16.67%
Kaj-Play and Learn Center of Bolinao	5	16.67%
Friedrich Froebel School	7	23.33%
	8	26.67%
Total	30	100%

Table 2b presents the status of the implementation of computer assisted instruction in Private Schools in Bolinao in terms of numbers and percentage of teacher using computer. It must be noted from table 2.b that all the identified schools used computer assisted instruction and it is therefore imperative that thirty (30) teachers who were trained should implement and teach using computer in their respective schools. However, with the member of teachers in the district there is still a need to procure more computers and to train more teachers along computer-instruction as the thrust and program of the DepEd.

Table 2 C
Status of the Implementation of Computer-AssistedInstruction to Grade 5 Learners Exposed To
Computer Assisted Instruction

N=75

Grade Level	F	Percent
Grade V-A	20	26.67%
Grade V-B	35	46.67%
Grade V-C	20	26.67%
Total	75	100%

Table 2c presents the status of the implementation of computer-assisted instruction to Grade 5 learners exposed to computer assisted instruction in Private Schools in Bolinao.

Going over table 2C the Grade 5 teachers using computer-assisted instruction revealed that the Grade 5 learners had no difficulty in teaching them in the use of computer for reasons that all of them are exposed to computer not only in school also at home or within their environment. This means that there is a need to expose other Grade 5 learners in other schools, since they will also be the end-beneficiaries of the computer program which is the target of the DepEd, that all learners will be exposed to computer-assisted instruction.

3.2 Level of Performance of the Grade 5 Learner In An Achievement Test Exposed To Computer

This section presents the level of performance of the Grade 5 in an achievement test exposed to computer. Table 3 presents the data in answer to sub-problem 2.

Table 3

Performance Level In Achievement Test	F	Percent
Grade V-A		
Very Good	15	20%
Good	10	13.33%
Fair	10	13.33%
Total	35	100%
Performance Level	F	Percent
Grade V-B		
Very Good	5	25%
Good	5	25%
Fair	10	50%
Total	20	100%
Performance Level	F	Percent

Grade V-C		
Very Good	5	25%
Good	5	25%
Fair	10	50%
Total	20	100%

Table 3 presents the level of performance of the Grade 5 learners in an achievement test exposed to computer-assisted instruction. It must be noted that the Grade 5 learners' level of performance belonged to "Fair ". Majority of the Grade 5 had a performance of "Fair" 5 or 33.33 percent; Grades 8 "Fair" 10 or 50 percent and Grades 9 "Fair" 10 or 50 percent. This implies the need to improve their level of performance in computer while it must be noted that the learners were already exposed to computer-assisted instruction, still they got fair performance level.

3.3 Proposed Recommendation to Enhance the Use Of Computer-Assisted Instruction in Private Schools in Bolinao, Division of Pangasinan

This section presents the proposed recommendations to enhance the use of computer-assisted instruction in Private Schools in Bolinao. This is to answer the sub-problem 3.

The propose recommendation to enhance the use of computer –assisted instruction in Private Schools in Bolinao was based on the analysis of findings made in this study. The researcher came up to recommend the different areas of concerns which needs to be addressed by DepEd Higher Authorities.

Areas of Concerns	Recommendation
Level of Performance	More practice exercises be given to the learners as reinforcement for them to work on. procurement of computers for every schools needing computer conduct of in-service trainings for computer teachers to gain more knowledge and skills in using computer-assisted instruction in their respective classroom.
Teaching Strategies	Provide different teaching strategies to improve the level of performance of the Grade 5 learners and be exposed to their environment Adopt various strategies in the teaching of computer Give assistance to the non-computer learners as to improve their level of performance. Exposed non-computer learners to an environment where computers are made available with the guidance of computer teacher

IV. SUMMARY, CONCLUSIONS AND RECOMMENDATIONS

This chapter presents the summary of findings, the conclusions drawn and the recommendations offered based on the findings and conclusions relative to the different sub-problems based on the study.

4.1 Summary

This study used the descriptive method of research using questionnaire as the main data gathering instrument in the assessment of implementation of computer-assisted instruction in Private Schools in Bolinao during the school year 2024-2025. The assessment focused on the status of the implementation of computer-assisted instruction in Private Schools in Bolinao in terms of number and percentage of trained teachers using computer and the grades of learners who are exposed to computer-assisted instruction and the level of performance of the Grade 5 learners in an achievement test exposed to the computer-assisted instruction. The output of the study is a proposed recommendation to enhance the use of computer-assisted instruction in Private Schools in Bolinao. The Seventy - five (75) Grade 5 learners served as subject respondents and thirty (30) computer teachers as respondent of the study. Frequency and percentage count was used to treat the data in the different sub-problem.

4.2 Findings

1. Status of the implementation of Computer-Assisted Instruction in Private Schools in Bolinao, Division of Pangasinan.

2. In terms of number and percentage of trained teachers, majority of the Grade 5 teachers had undergone in-service trainings in line with computer-assisted instruction.

3. There were only thirty (30) teachers using computer-assisted instruction in selected schools in Private Schools in Bolinao.

4. The Grade 5 learners are the only learners exposed to computer assisted instruction, at the selected schools in Private Schools in Bolinao.

5. Level of performance of the Grade 5 learners in the Achievement Test Exposed to computer-Assisted Instruction.

6. The Grade 5 learners who are exposed to computer-assisted instruction are "Fair" in their level of performance in computer instruction.

7. Proposed Recommendations to enhance the use of Computer-Assisted Instruction in Private Schools in Bolinao.

8. The proposed recommendations can enhance the use of computer-assisted instruction in Private Schools in Bolinao.

4.3 Conclusion

Based on the findings the following conclusions were drawn:

1. Generally there is still a need to train computer Teachers in Private Schools in Bolinao to enhance their competence in teaching the Grade 5 learners along computer-assisted instruction.
2. The level of performance of the Grade 5 can still be improved through the assistance of the computer teacher.
3. The proposed recommendations can help computer-teachers to improve their computer teaching skill and competencies.

4.4 Recommendations

Based on the conclusion drawn, the following recommendations are hereby offered:

1. The proposed recommendations should be forwarded to DepEd authorities for implementation.
2. The computer teachers should attend more relevant in-service trainings in line with computer-assisted instruction.
3. Procurement of computer units through MOOE and local school board fund.
4. All schools should be provided with computer units.
5. Similar study be conducted in region, division to validate the findings of the study.

REFERENCES

A. BOOKS

[1] Chartain, Kenneth. Behavioristic Approaches in Programmed Eduaction and Instruction, TESOL, New York: Mc Graw-Hill Inc. 2000.
[2] Diano, Lucesa YI. Developing Skills in Advanced Grammar and Composition. Manila National Bookstore, 2010.
[3] FinoChiaro J. Second Language Teaching. New York: Mc Graw-Hill, 2012.
[4] Garcia, Manuel Buenconsejo. Focus on Teachiong. Manila: Rex Book Store, 2013.
[5] Gredles, Margaret E. Learning and Instruction Theory in Practice. New York: Mcmillan Publishing Company, 2012.
[6] Haelfele, Donal. Teachers Development of Learning Module, Perspective in Individual Learning. Ithasca, III: f.S. Peacock Publishers, Inc. 2001.
[7] Ornstein, Allan C. Strategies for Effective Teaching. New York: Harper Collins Publisher, 2000.
[8] Reading/Language Arts Framework for Calofornia Public Schools. Sacramento: Calofornia Department of education, 2018.

B. PUBLISHED MATERIALS/JOURNALS

[9] English Teaching Forum. A journal for the Teacher of English Outside the United States. Vol. VI No. 2 March-April,2018.
[10] Katigbak, Rebecca R. "Developing Principled Communicative Competence Through Conversation Practice". Quality Teacher. Vol. 3, No.3.
[11] Making Eduaction Work. An Agenda for reform (EDCOM Report) 2011.
[12] Thelmo, Judith S. "Problems Encountered in Teaching of English". Philippine Journal of Education. Vol. LXXV, No. 9, February, 2010.

C. UNPUBLISHED MATERIALS

[13] Agbayani, Erlina M. "Supplementary Instructional Materials for the Enhancement of Writing Skills of Sophomore High School Learners" Doctoral Dissertation, Lyceum Northwestern University, Dagupan City 2012.
[14] David, Edison P. "Development and Validation of Interactive Language Teaching Modules on Teaching English IV". Unpublished Master's Thesis, Tarlac State University, Tarlac City, 2017.
[15] Escorpizo, Marieta M. "Proposed Modules for Developing Critical Thinking Skills of Fourth Year Teacher education learners". Dissertation Lyceum Northwestern University, Dagupan City 2010.
[16] Incognito, Anacleta B. "Correlates of Academic Performance in English Among Grade 10 learners in the District of Silang I", Silang Cavite, 2011.
[17] Laron, Rissa M. "Written English Proficiency of Junior College Learners of Five Colleges in San Fernando, La Union". M.A. Thesis, 2010.
[18] Lumbas, Nancy. "Ready Difficulties of the Grade 12 of Bokod, Benguet". M.A. Thesis, Baguio Central University, Baguio City, 2010.

[19] Mendi, Annabel C. "Proposed Support and Enrichment Materials in Reading English in Grade 11". M.A. Thesis, Lyceum Northwestern University, Dagupan City 2014.
[20] Ochoa, Lorna M. "Selected Factors Affecting Learning in Communication Arts English 3". Master of Arts in Education, Golden Gate College, Batangas City, March, 2016.
[21] Penuliar, Norma A. "Oral Proficiency in English of the Intermediate Teachers in the district of Mapandan: Basis for a Proposed Speech Improvement Program". Lyceum-Northwestern, Dagupan City, 2010.

[22] Salazar, Ma. Elaine i. "Second Language Learning Strategies and Communicative Competence of the Bicol University, Bicol Province", 2010.

[23] Tolentino, Zenaida T. Difficulties in English Achievement Test of Grade 12 Learners in Selected Elementary Schools SY 1997-2004". M.A. Thesis, Dela Vida College, cotabato City," March 2017.

D. OTHERS

[24] Constitution, 1987.

[25] Gloria, Ricardo T. "Educational Excellence for Philippines 2010". A Keynote Speech Delivered at the 1995 educator's Congress, May 17, 1995 in Baguio City.

[26] Rosas, Nilo L. "Private Schools Asked to Help Improved Quality of Education". Tempo, October 19, 2016.