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Southeast Asia Design Research (SEA-DR) International Conference is an annual conference held in the Southeast Asia region with the aim of developing the design research field in Education. The conference also aims to disseminate research results related to design research both for policy interests and for practical use in their application in various educational disciplines. The 8th SEA-DR International Conference was combined with The Second Science, Technology, Education, Arts, Culture, and Humanity (The 2nd STEACH) International Conference.

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Series: Advances in Social Science, Education and Humanities Research

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PREFACE

Southeast Asia Design Research (SEA-DR) International Conference is an annual conference held in the Southeast Asia region with the aim of developing the design research field in Education. The conference also aims to disseminate research results related to design research both for policy interests and for practical use in their application in various educational disciplines. The 8th SEA-DR provide excellent opportunities for academics, lecturers, teachers, students, educators, researchers, and educational stakeholders to share knowledge and research findings and to promote best practices in design research. The topic of interest covers all theoretical and practical aspects of design research in the fields of teaching and education in science, technology, engineering, mathematics, sports, languages, management, economics, and other social sciences. The 8th SEA-DR International Conference was combined with The Second Science, Technology, Education, Arts, Culture, and Humanity (The 2nd STEACH) International Conference, which was first held on 29 October 2018.

The main theme for this joint conference is "Empowering creative education

for freedom of teaching and learning" with the main scope of the accepte paper is all the theoretical and practical aspects of design research in the fields of education in science, technology, engineering, mathematics, sports, art & language, and cultural & humanities.

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Unfolding the Practical of Numerical Literacy for Specialist in Teaching Mathematics

Mohamad Rif'at, Sugiatno Sugiatno

This research aims to explain the typical rationale design of mathematics education research for a teacher to become a specialist in teaching mathematics. The structure shows learning environment as a natural way to address the teachers in their primary role and as the approach for effectively improving...

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Development of STEM Animation Learning Media with Feedback to Facilitate Students' Critical Thinking Ability on Global Warming Materials

Fitria Lafifa, Parno Parno, Erti Hamimi, A M. Setiawan

Critical thinking skills are needed to face the 21st century. PISA 2018 data shows that students' critical thinking skills are still low. The Earth is experiencing an increase in temperature so it requires a solution to overcome it. STEM animation learning media with feedback can increase student reality...

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Linguistic Challenges in Solving Mathematics Word Problems: A Case of EFL University Students

Namirah Fatmanissa, Maria N. R. Novianti

One of the biggest challenges English as Foreign Language (EFL) learners face in solving Mathematics word problems at the English college level is understanding the information presented through that language. This study aimed to investigate the importance of language in Mathematics word problems tests...

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Designing *Siri' na Pacce* Values-Based Learning Model
Nurturing Local Wisdom in Elementary School

Abdul Azis, Kokom Komalasari, Sapriya Sapriya, Rahmat Rahmat

This study aimed to propose an appropriate learning model that promotes siri' na pacce to nurture and strengthen the character of elementary school students. Siri' na pacce is the local wisdom of the Bugis-Makassar tribe, one of the prominent tribes in Indonesia. This study was educational design research....

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Improving Student Geometry Problem-Solving Skills Through Spatial Training

Yenny Safrina, M. Ikhsan, Cut M. Zubainur

Problem-solving is an integral part of learning mathematics, and geometry is one of the basic subjects of mathematics. However, students' geometric problem-solving skills are relatively lacking due to some factors, including spatial skills. There is a significant relationship between spatial skills and...

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Development of Science E-module Based on SETS (Science, Environment, Technology, and Society) with Formative

Assessments to Improve Critical Thinking Ability of Grade Students on Biotechnology Materials

Dwi T. Arianti, Parno Parno, Muhammad F. Marsuki, Isnanik J. Fitriyah, Safwatun Nida

Biotechnology is essential to learn, but students still have difficulty learning due to a low understanding of learning materials, and students are not directly involved in learning, so that it hampers students' ability to think critically. However, the development of SETS-based teaching materials with...

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Improving Reading Comprehension of Simple Reading Text Using Directed Reading Thinking Activity (DRTA) Strategy for Deaf Students

Reza A. Fauzan, Asri Wijiastuti, Yuliati Yuliati

The purpose of this study was to describe the steps in using the Directed Reading Thinking Activity (DRTA) strategy to improve reading comprehension skills of simple reading texts in class VII deaf students of SMPLB Karya Mulia Surabaya. This research is a Classroom Action Research (CAR) carried out...

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Exploring the Critical Thinking Process of Prospective Teachers with High Mathematics Ability in Solving Ill-

Structured Problems

Abd. K. Jaelani, Siti M. Amin, Abadi Abadi

This study explored the features of critical thinking process skills of prospective teachers with high mathematics abilities in the process of solving ill-structured problems in mathematics classes of private universities in Makassar, Indonesia. Participants solved ill-structured problems by following...

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Professionalism Development of High School Teachers in Improving the Ability to Implement Realistic Mathematics Education in East OKU Regency

Edwar Edwar, Ratu I. I. Puteri, Zulkardi Zulkardi

The results of the teacher competency survey from the 2018 Program for International Student Assessment (PISA) put Indonesia in rank 74 out of 79. This shows the low quality of teachers that has an impact on student achievement. The ability of students is very lacking, especially in the ability of understanding,...

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Teacher Interpersonal Communication With Autism Students In Inclusive School

Faiqotul Himmah, Wiwik Widajati, Budiyanto Budiyanto

In teaching and learning activities, communication is the most importan factor as the main source in conveying knowledge. The purpose of this st was to describe the interpersonal communication of autistic students with teachers. This research uses qualitative research methods with qualitative descriptive...

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Application of Fading in Expressive Language E-Learning for Autistic Children

Nur R. A. Siddieqy, Sujarwanto Sujarwanto, Wiwik Widajati

Language is a means of communication that gives symbols and meaning to thoughts and feelings to convey messages or information to others, but children with autism have difficulty in expressive language communication. This happened to children with autism in one of the special schools in the city of Sidoarjo...

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Implementation of Differential Reinforcement of Other Behavior (DRO) with Digital Video Assistance to Reduce Maladaptive Behavior in Deaf Children

Sibi D. Novialassafitri, Siti Masitoh, Endang Purbaningrum

This study aims to determine the effect of the Differential Reinforcement of Other Behavior (DRO) program to reduce maladaptive behavior or behaviors that should not appear in children with hearing disabilities that occur during

online learning at home. The research approach uses quantitative research

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A Study Accessibility of Deaf Students During The Covid-19 Pandemic
(Case Study of Online and Offline Learning)

Melania Safirista, Sofiarti Murtadlo, Endang Pudjisartinah

The COVID-19 pandemic has changed various sectors including education One of the vital things is the education sector including Deaf Education. In this qualitative research, the researcher invited some informants to explore various things since the problem that occurs among Deaf students is about access...

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User Interface and User Experience Design of Family Intervention Application for Parents of Children with Autism

Luqyana D. Amira, Wagino Wagino, I K. Budayasa

Children with autism need optimal and consistent intervention at school and home. Parents need an application as a guide for implementing interventions at home. This study aims to develop a home-based intervention application design so that it is easy to use by parents and match with the intervention…

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Development of Automated Assessment Tool to Measure Student Creativity in Computer Programming

Ricky E. Putra, Ekohariadi Ekohariadi, I K. D. Nuryana, Yeni Anistyasari

Computer programming is one of the favorite learning topics among students in the 21st century. However, the students' creative thinking skills are often less able to compensate for this computer programming learning. One of the learning activities applied to hone students' creativity in computer programming…

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Development of Authentic Assessment Models in Research Methods Courses

Proceedings of the Eighth Southeast Asia Design Research (SEA-DR) &...

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Sri Wahyuni, Fertilia Ikashaum, Endah Wulantina, Juitaning Mustika, La Mustika Putri

Assessment is one of the learning processes used to see the success of learning. If the assessment system is correct, then the data obtained will describe the actual learning outcomes. This research aims to produce an authentic assessment model used as an assessment guide for research methods courses....

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Modern Art Inculturation Oriented Education in Flores

Warih Handayaningrum, Dwiki N. Mukti, Setyo Yanuartuti

An island in the East Nusa Tenggara region, Flores shows dynamics of artistic development- making it different from other islands in Indonesia. One of the influencing factors in the development of art school. In Flores, a junior secondary seminary school was established in Sikka in 1926. In the seminary,...

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Strengthening Students' Motivation in Statistics Online Learning Through Interactive Animation Media on Android Smartphone

Ni W.D. Ayuni, Agus A. Putrawan, Kadek C. Dewi

Students' motivation plays an important role in increasing students' ability

and learning outcomes, especially in online learning. Strengthening stud
motivation can be conducted by using proper and creative learning medi
With an interesting media will make students enthusiastic in taking
lessons....

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Ethnomathematics: Traveling Trade on The Musi River

Malalina Malalina, Ratu I. I. Putri, Zulkardi Zulkardi, Yusuf Hartono

The culture around students can be used to understand mathematical
concepts even though there is not much linking the culture in students in the
learning process. This study aims to discover the mathematical concepts in
traveling trading activities on the Musi River. The research subject is a
traveling...

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Visually Impaired Students' Creative Thinking in Solving a Geometry Problem

Luthfiana Tarida

Every person has an equal opportunity to pursue education, with no exception
for visually impaired students. Sometimes, it is difficult for them to learn
mathematics, especially geometry. Geometry is usually learned by visual that
visually impaired students have limitations due to damaged eyesight.
Creative...

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Islamic Financial Literacy in Mathematics Education: Proposed Design for Instruction

Intan B. Kusumawati, Achmad D. Fachrudin, Ratu I. I. Putri, Zulkardi Zulkardi, Soffil Widadah, Muhammad K. Mubarok

This study aims to develop a social arithmetic learning design by integrating Islamic economic principles. Using various Islamic financial products as a context in mathematical tasks, we propose a hypothetical learning trajectory (HLT) to support the students' Islamic financial literacy (IFL) skills....

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How Pre-Service Elementary Teachers Deal with Mathematical Literacy Problems? A Case Study

Rita Novita, Tatang Herman, Didi Suryadi, Dadan Dasari, Mulia Putra

Pre-service elementary teachers (PSETs) must understand in-depth mathematical concepts and procedures. Still, they must also improve their mathematical ability and skills in solving mathematical problems and applying them in all aspects of life. Such mathematical capacity is known as mathematical literacy....

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Development of Student Worksheet Based on Ethnomathematics Traditional *Engklek* Games on Cube and Rectangular Pyramid

Mar'atush Sholihah, Soffil Widadah, Dewi Sukriyah

The math learning associated with traditional games will make students learn while playing, but unfortunately not many teachers have developed learning devices related to ethnomathematics. The purpose of this study is to describe the process and result of the development of student's worksheet based...

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Tetra-Helix Concept Model Based on Vocational Realistic Education (VRE)

Agus A. Putrawan, Ni W. D. Ayuni

Even though many studies have been conducted regarding realistic mathematical concepts, there is only a little research on their implementation in vocational mathematics learning. This study aims at producing a mathematics instructional materials development model. This study was a research and development...

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Pedagogical Skills Exercise as an Alternative to Increase T Teaching Ability of Pre-Service Chemistry Teachers at Fiel Experience Practice

Mohan T. Mashuri, Suyatno Suyatno, Utiya Azizah

This study aims to determine the effect of providing Pedagogical Skills Excercise (PSE) on the teaching ability of pre-service chemistry teachers in the Field Experience Practice (FEP). The PSE used in this study consist of three different aspects, namely the skill of developing teaching materials, the...

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The Effects of Sample Size and Options Number on the Validity Item of Students' Environmental Personality Score

Rahmirini Datau, I M. Putrawan, Wardani Rahayu

Personality possesses close ties with character education or building. A student that studied character building will be able to apply pro-environmental behaviors. An instrument is needed to determine a students' environmental personality, and the most important trait in a test/instrument is validity....

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Understanding Philosophy of Mathematics Education Through Numeracy Task with the Context of Covid-19

Pandemic

Tatag Y. E. Siswono, Masriyah Masriyah, Shofan Fiangga, Ahmad W. Koh

Philosophy as a science that studies general objects of knowledge needs to be introduced in various activities, such as solving problems related to numeracy in the context of the COVID-19 pandemic. Hence, this study aims to explore students' understanding of the general philosophy of completing numeracy...

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Pre-service Science Teachers' Critical Thinking Dispositions and Critical Thinking Skills

Amiq Fikriyati, Rudiana Agustini, Suyatno Suyatno

Critical thinking disposition and critical thinking skills are essential parts of critical thinking that are mutually reinforcing. This study is aimed to describe and examine the relationship between critical thinking dispositions and critical thinking skills of pre-service science teachers. In this...

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Development of Mathematical Literacy Problems Using Bengkulu Context

Agus Susanta, Hari Sumardi, Zulkardi Zulkardi

The implementation of the Minimum Competency Assessment (AKM) in 2021 created confusion among students and teachers, especially in secondary schools in Bengkulu City due to the limited number of problems that refer to

the AKM. The purpose of this study was to generate mathematical literac
problems using...

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Publication Performance and Scientific Impact of Unesa Postgraduate Lecturers

Wasis Wasis, Tsuroyya Tsuroyya, Muhammad A. Ghofur

The performance of scientific publications of the Postgraduate lecturers at Universitas Negeri Surabaya is one of the important indicators in measuring the quality of learning as well as the reputation of the institution. Therefore, the performance requires continuous support. This study seeks to describe...

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Profile of Students' Science Process Skills on Substance Pressure Material

Saidawati Saidawati, Zainul A. I. Supardi, Fida Rachmadiarti, Eko Hariyono, Arif Sholahuddin, Binar K. Prahani

Science education essentially involves students in a systematic scientific investigation. SPS can be developed in science-based learning so that students can use it as a basic skill to master science. 100 students of class VIII of Junior High school in the first year were the samples used in this research....

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The Relationship of Eye-foot Coordination with Football Skill: A Correlation Study in Young Football Player

Razali Razali, Myrza Akbari

Football skills are one of the fundamental aspects that football players must possess. In addition, to support football skills, football players must be equipped with abilities in good physical condition. Based on previous research studies, movement in football is dominated by dynamic movements, so that...

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The Effectiveness of Using Problem Based Learning and Video Scribe

R. A. Rica Wijayanti, Didik Hermanto, Mety Liesdiani

This study aims to describe the effectiveness of the Model Problem-Based Learning and video scribe media in terms of mathematical reasoning and motivation to learn. This study was quasi-experimental with the nonequivalent control group design. The population of this research was all students in SDN Bilaporah...

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The Use of STEM-Integrated Project-based Learning Model Improve Learning Outcomes of Junior High School Studen

Roudhoutul A. Rochim, Prabowo Prabowo, Mohammad Budiyanto, Eko Hariyono, Binar K. Prahani

The research objective to get the profile of STEM-integrated PjBL (project-based learning) models for improving learning outcomes of junior high school students. Qualitative descriptive analysis using literature review was conducted to get the profile of STEM-integrated project-based learning models....

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The Study of Implementation SETS Approach to Improve Students' Critical Thinking Skills

Wardatul Aini, Fida Rachmadiarti, Prabowo Prabowo, Eko Hariyono, Binar K. Prahani

Some skills need to be developed in the 21st century, namely communication, collaboration, critical thinking and problem solving, and creativity. SETS is an approach in learning activities that consists of four components, namely science, technology, environment, and society. This approach is applied...

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Ethnomathematics in Wedding Traditions of Dayak Ethnic

Hodiyanto Hodiyanto, Karsoni Bertadinata, Gemi Susanti, Andi M. Ramlan,

Hartono Hartono, Iwit Prihatin, Utin D. Susiaty, Muhamad Firdaus, Darwa
Darwanto, Sumarno Sumarno, Agustina Marlina

The purpose of this study was to explore ethnomathematics in the Dayak
Pompak'ng ethnic marriage tradition. The type of research used in this study
is qualitative research with an ethnographic approach. This research was
conducted on the Dayak Pompak'ng community, especially in Lintang
Pelaman Village,...

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How Does Social Science Education Drive Marketing Mindset to Shape Entrepreneurial Interest?

Harti Harti, Nasution Nasution, Nugroho H. Purnomo, Andre D. Witjaksono,
Norida C. Sakti, Ramlee b. Ismail, Mohd A. b. M. Noor

The study of entrepreneurial interest and marketing mindset were limited to
entrepreneurial education and has not taken into account a broader scientific
family, specifically the social sciences. Previous studies also omitted to
mention the influence of external environments on the social science
education...

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Unpacking Primary Teachers' Initial Knowledge of Realistic Mathematics Education: A Case of Iceberg Model of Fraction Division

Evangelista L.W. Palupi, Ahmad W. Kohar, Rooselyna Ekawati, Shofan

Fiangga, Masriyah Masriyah

Iceberg model of realistic mathematics education (RME) is known as a metaphor to illustrate how informal, pre-formal, and formal mathematical models and strategies are used by students to develop a "floating capacity" for the understanding of formal representations of mathematics. This is a survey study...

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STEAM-Integrated Project Based Learning Models: Alternative to Improve 21st Century Skills

Zayyinah Zayyinah, Erman Erman, Zainul A. I. Supardi, Eko Hariyono, Binar K. Prahani

Education in Curriculum 2013 has to create and design learning for the 21st century. 21st-century skills have to possess critical thinking, problem-solving, creativity, collaboration, communication, science literacy, etc. STEAM-integrated project-based learning consists of five aspects, namely science,...

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Statistical Reasoning Ability of Banda Aceh City High School Students

Vaniyon Ariwinanda, Cut M. Zubainur, Hizir Sofyan

Statistical reasoning ability is the ability to understand the information that exists in everyday life based on statistical data, the ability to answer problems

properly based on existing data in different ways, and obtain results that not much different. The purpose of this study was to examine...

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Readability of Higher-order Thinking (HOT) Mathematical Problems in Disaster Context for Junior High School Students

Fahlida Harnita, Rahmah Johar, Rina S. Oktari

Disaster mitigation efforts in learning mathematics need to be carried out to foster disaster awareness in students through higher-order thinking (HOT) mathematical problems in a disaster context. One effort that can be done is to design HOT math problems with disaster context. However, the problems...

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Developing a Realistic Mathematics Education Based Learning Module on Sets Subject in Junior High School

Rinoanus E. Jenaman, Kadek A. Wibawa, I G. A. P. A. Wulandari

The 2013 curriculum emphasizes student activity in the learning process. Therefore, learning resources used are expected to support the curriculum. Learning resources used in schools are in the form of textbooks and worksheets which only contain a summary of material and assignments for students. This...

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Preliminary Learning Design Based Realistic Mathematics Education on Entrepreneurship Arithmetic Content in Junior High School

Kadek A. Wibawa, I P. A. A. Payadnya, Rinoanus E. Jenaman, Dilla Safira, Gede I. Gunawan, Ni L. P. K. W. Lestari, Putu Y. Prawesti

One thing that the causes boring mathematics learning is teachers often do not relate the concepts to students' experiences in their life. This research aims to develop learning designs based on realistic mathematics education on entrepreneurship arithmetic content in junior high school. In this paper,...

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World Complexity in BIPA Textbook Levels A-C as Material for Indonesian Vocabulary Mastering for Foreign Speaker

Agusniar D. Savitri, Dianita Indrawati, Suyatno Suyatno

One of the things that foreign speakers find difficult when learning Indonesian is the form of derivation. Foreign speakers find it difficult to distinguish the use of affixed words. One of the books used as a reference in learning Indonesian is the A-C level BIPA textbook published by Badan Bahasa....

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The Effect of Using Online Learning Media and Learning Styles Towards Marine Cadets Learning Motivation

Ardhiana Puspitacandri, Sutoyo Sutoyo

The study aims to determine the interaction of web-based learning media used and the student learning styles in influencing learning motivation during the distance learning process during the pandemic. The research population was cadets of Surabaya Merchant Marine Polytechnic in the second semester....

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Improving Parents' Attention to The Interest of High School Students Continuing Study in Higher Education through a Parenting Program

Ninin Irmawati, Najlatun Naqiyah, Hadi Warsito

Continuing to college is the dream of high school graduates living in urban areas. With good grades in semesters 1-5, they can pass SNMPTN with a study program that suits their interests, especially if they have KIP or PIP scholarship cards. With KIP they do not need to spend money, tuition fees are...

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A Study of ICT-Based Learning in Elementary School Mathematics Learning Concepts During the COVID-19 Pandemic

Wiryanto Wiryanto, Chusnul Chotimah, Ni'matur Rochmah, Mario Florentino

This study aims to examine the application of technology to mathematics learning at the time of the Covid-19 pandemic. The research method used is comparative analysis research. The variables being compared are Information and communication technologies-based learning media with the contribution of several...

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High School Students' Self-Regulated Learning and Academic Procrastination Level in Blended Learning Model: A Correlation Analysis

Nanang Habibi, Retno Hariastuti, Rusijono Rusijono

The Covid-19 pandemic causes teachers to conduct limited face-to-face learning with online and offline (blended learning), impacting students' l self-regulated learning (SRL) and high academic procrastination (AP). This study aims to describe students' SRL and AP levels in the blended learning model…

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Implementation of Lesson Study for Learning Community (LSLC) and PMRI in Three-Dimensional Learning at A State Secondary School in South Sumatera

Rini H. Rusiyanti, Ratu I. I. Putri, Zulkardi Zulkardi

Lesson Study for Learning Community (LSLC) is one of the efforts that can be done to improve teacher learning abilities. LSLC is an activity that can solve problems faced by teachers by applying various methods or appropriate learning strategies according to the demands of the 2013 curriculum and 21st…

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Designing Learning Trajectory on The Topic of Simplifying Fractions Using Realistic Mathematics Education with Flipped Classroom Strategy

Stevanus Trionanda, Hongki Julie

This study aims to design a learning trajectory-based instruction that is used

to teach simplification of fractions using realistic mathematic education flipped classroom. This study is the design research which aims to devel... learning instrument theoretically and empirically. The instruments...

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Analysis of Mathematical Creative Thinking Ability of Junior High School Students on Angle Materials

Bahagia Bahagia, Rahmah Johar, Anwar Anwar

Creative thinking is an important ability in mathematics, but the studies that have analyzed students' creative thinking abilities on angle material are still limited. This study aims to determine the mathematical creative thinking ability of junior high school students on angle material. The type of...

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Prospective Mathematics Teachers' Pedagogical Content Knowledge in Teaching Mathematics Using Flipped Classroom Strategy

Hongki Julie

The purposes of this study are to describe (1) how the learning trajectory of students taking Micro Teaching courses in class D for the 2020/2021 academic year is so that students can practice the Flipped Learning model, and (2) how the Pedagogical Content Knowledge (PCK) of students who take the Micro...

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Synergy of Industrial Sector for the Implementation of MBKM Curriculum: Where Innovators and Investors Meet

Bambang Yulianto, Sujarwanto Sujarwanto, Harmanto Harmanto, Martadi Martadi, Sueb Sueb, Hasan Subekti

The Government of Indonesia promotes the idea of independent learning (MB-KM) as the natural learning process to achieve student's autonomy for critical thinking, creativity, and collaborative skills. The purpose of this study is to map various forms of synergies between the higher education and industrial...

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Strategies to Implement Independent Learning Programs: A Reflective Study on Ministerial Programs

Harmanto Harmanto, Bambang Yulianto, Muhammad Sholeh, Hasan Subekti, Sueb Sueb

The essence of Independent Learning (MB-KM) programs proposed by the Ministry of Education and Culture is to explore the potential of university learners and students in innovating and improving the quality of learning independently beyond the main study programs. In line with MB-KM policies, higher...

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Sueb Sueb, Zainul Aminin, Fauris Zuhri, Abdus Rosyid, Lina P. Hartanti, Laily M. S. Harti

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Nasution Nasution, Warsono Warsono, Sarmini Sarmini, Ketut Prasetyo, Nuansa B. Segara, Dian Fauziah, Tri S. Ulamatullah

The facts that social studies teachers do not yet have a research culture that focuses on improving the quality of social studies learning and slightly varied learning models used during the learning process lead to the urgency of having a teacher training program on improving teachers' understanding...

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212 authors

Abadi, Abadi
Exploring the Critical Thinking Process of Prospective Teachers with High Mathematics Ability in Solving Ill-Structured Problems

Agustini, Rudiana
Pre-service Science Teachers' Critical Thinking Dispositions and Critical Thinking Skills

Aini, Wardatul
The Study of Implementation SETS Approach to Improve Students' Critical Thinking Skills

Akbari, Myrza
The Relationship of Eye-foot Coordination with Football Skill: A Correlation Study in Young Football Player

Amin, Siti M.
Exploring the Critical Thinking Process of Prospective Teachers with High Mathematics Ability in Solving Ill-Structured Problems

Bertadinata, Karsoni
Ethnomathematics in Wedding Traditions of Dayak Ethnic

Budayasa, I K.
User Interface and User Experience Design of Family Intervention Application for Parents of Children with Autism

Budiyanto, Budiyanto
Teacher Interpersonal Communication With Autism Students In Inclusive School

Budiyanto, Mohammad
The Use of STEM-Integrated Project-based Learning Models to Improve Learning Outcomes of Junior High School Students

Chotimah, Chusnul
A Study of ICT-Based Learning in Elementary School Mathematics Learning Concepts During the COVID-19 Pandemic

Darwanto, Darwanto
Ethnomathematics in Wedding Traditions of Dayak Ethnic

Dasari, Dadan
How Pre-Service Elementary Teachers Deal with Mathematical Literacy Problems? A Case Study

Datau, Rahmirini
The Effects of Sample Size and Options Number on the Validity Item of Students' Environmental Personality Score

Dewi, Kadek C.
Strengthening Students' Motivation in Statistics Online Learning Through Interactive Animation Media on Android Smartphone

Edwar, Edwar
Professionalism Development of High School Teachers in Improving the Ability to Implement Realistic Mathematics Education in East OKU Regency

Ekawati, Rooselyna
Unpacking Primary Teachers' Initial Knowledge of Realistic Mathematics Education: A Case of Iceberg Model of Fraction Division

Ekohariadi, Ekohariadi
Development of Automated Assessment Tool to Measure Student Creativity in Computer Programming

Erman, Erman
STEAM-Integrated Project Based Learning Models: Alternative to Improve 21st Century Skills

Fachrudin, Achmad D.
Islamic Financial Literacy in Mathematics Education: Proposed Design for Instruction

Fatmanissa, Namirah
Linguistic Challenges in Solving Mathematics Word Problems: A Case of EFL University Students

Fauzan, Reza A.
Improving Reading Comprehension of Simple Reading Text Using Directed Reading Thinking Activity (DRTA) Strategy for Deaf Students

Fauziah, Dian
Training of Applying Research-Based Learning on Junior High School Social Studies Teacher

Fiangga, Shofan
Understanding Philosophy of Mathematics Education Through Numeracy Task with the Context of Covid-19 Pandemic

Fiangga, Shofan
Unpacking Primary Teachers' Initial Knowledge of Realistic Mathematics Education: A Case of Iceberg Model of Fraction Division

Fikriyati, Amiq
Pre-service Science Teachers' Critical Thinking Dispositions and Critical Thinking Skills

Firdaus, Muhamad
Ethnomathematics in Wedding Traditions of Dayak Ethnic

Fitriyah, Isnanik J.
Development of Science E-module Based on SETS (Science, Environment, Technology,

and Society) with Formative Assessments to Improve Critical Thinking Ability of Grade IX Students on Biotechnology Materials

Florentino, Mario
A Study of ICT-Based Learning in Elementary School Mathematics Learning Concepts During the COVID-19 Pandemic

Ghofur, Muhammad A.
Publication Performance and Scientific Impact of Unesa Postgraduate Lecturers

Gunawan, Gede I.
Preliminary Learning Design Based Realistic Mathematics Education on Entrepreneurship Arithmetic Content in Junior High School

Habibi, Nanang
High School Students' Self-Regulated Learning and Academic Procrastination Level in Blended Learning Model: A Correlation Analysis

Hamimi, Erti
Development of STEM Animation Learning Media with Feedback to Facilitate Students' Critical Thinking Ability on Global Warming Materials

Handayaningrum, Warih
Modern Art Inculturation Oriented Education in Flores

Hariastuti, Retno
High School Students' Self-Regulated Learning and Academic Procrastination Level in Blended Learning Model: A Correlation Analysis

Hariyono, Eko
Profile of Students' Science Process Skills on Substance Pressure Material

Hariyono, Eko
The Use of STEM-Integrated Project-based Learning Models to Improve Learning Outcomes of Junior High School Students

Hariyono, Eko
The Study of Implementation SETS Approach to Improve Students' Critical Thinking Skills

Hariyono, Eko

STEAM-Integrated Project Based Learning Models: Alternative to Improve 21st Century Skills

Harmanto, Harmanto
Synergy of Industrial Sector for the Implementation of MBKM Curriculum: Where Innovators and Investors Meet

Harmanto, Harmanto
Strategies to Implement Independent Learning Programs: A Reflective Study on Ministerial Programs

Harnita, Fahlida
Readability of Higher-order Thinking (HOT) Mathematical Problems in Disaster Context for Junior High School Students

Hartanti, Lina P.
Rhetorical Moves Used in Thesis Proposal Writing: A Reflective Study of ELT Students

Harti, Harti
How Does Social Science Education Drive Marketing Mindset to Shape Entrepreneurial Interest?

Harti, Laily M. S.
Rhetorical Moves Used in Thesis Proposal Writing: A Reflective Study of ELT Students

Hartono, Hartono
Ethnomathematics in Wedding Traditions of Dayak Ethnic

Hartono, Yusuf
Ethnomathematics: Traveling Trade on The Musi River

Herman, Tatang
How Pre-Service Elementary Teachers Deal with Mathematical Literacy Problems? A Case Study

Hermanto, Didik
The Effectiveness of Using Problem Based Learning and Video Scribe

Himmah, Faiqotul
Teacher Interpersonal Communication With Autism Students In Inclusive School

Hodiyanto, Hodiyanto

Designing Learning Trajectory on The Topic of Simplifying Fractions Using Reali Mathematics Education with Flipped Classroom Strategy

Julie, Hongki
Prospective Mathematics Teachers' Pedagogical Content Knowledge in Teaching Mathematics Using Flipped Classroom Strategy

Kohar, Ahmad W.
Understanding Philosophy of Mathematics Education Through Numeracy Task with the Context of Covid-19 Pandemic

Kohar, Ahmad W.
Unpacking Primary Teachers' Initial Knowledge of Realistic Mathematics Education: A Case of Iceberg Model of Fraction Division

Komalasari, Kokom
Designing Siri' na Pacce Values-Based Learning Model

Kusumawati, Intan B.
Islamic Financial Literacy in Mathematics Education: Proposed Design for Instruction

Lafifa, Fitria
Development of STEM Animation Learning Media with Feedback to Facilitate Students' Critical Thinking Ability on Global Warming Materials

Lestari, Ni L. P. K. W.
Preliminary Learning Design Based Realistic Mathematics Education on Entrepreneurship Arithmetic Content in Junior High School

Liesdiani, Mety
The Effectiveness of Using Problem Based Learning and Video Scribe

Malalina, Malalina
Ethnomathematics: Traveling Trade on The Musi River

Marlina, Agustina
Ethnomathematics in Wedding Traditions of Dayak Ethnic

Marsuki, Muhammad F.
Development of Science E-module Based on SETS (Science, Environment, Technology,

and Society) with Formative Assessments to Improve Critical Thinking Ability of Grade IX Students on Biotechnology Materials

Martadi, Martadi
Synergy of Industrial Sector for the Implementation of MBKM Curriculum: Where Innovators and Investors Meet

Mashuri, Mohan T.
Pedagogical Skills Exercise as an Alternative to Increase The Teaching Ability of Pre-Service Chemistry Teachers at Field Experience Practice

Masitoh, Siti
Implementation of Differential Reinforcement of Other Behavior (DRO) with Digital Video Assistance to Reduce Maladaptive Behavior in Deaf Children

Masriyah, Masriyah
Understanding Philosophy of Mathematics Education Through Numeracy Task with the Context of Covid-19 Pandemic

Masriyah, Masriyah
Unpacking Primary Teachers' Initial Knowledge of Realistic Mathematics Education: A Case of Iceberg Model of Fraction Division

Mubarok, Muhammad K.
Islamic Financial Literacy in Mathematics Education: Proposed Design for Instruction

Mukti, Dwiki N.
Modern Art Inculturation Oriented Education in Flores

Murtadlo, Sofiarti
A Study Accessibility of Deaf Students During The Covid-19 Pandemic

Mustika, Juitaning
Development of Authentic Assessment Models in Research Methods Courses

Naqiyah, Najlatun
Improving Parents' Attention to The Interest of High School Students Continuing Study in Higher Education through a Parenting Program

Nasution, Nasution
How Does Social Science Education Drive Marketing Mindset to Shape Entrepreneurial

Interest?

Nasution, Nasution
Training of Applying Research-Based Learning on Junior High School Social Studies Teacher

Nida, Safwatun
Development of Science E-module Based on SETS (Science, Environment, Technology, and Society) with Formative Assessments to Improve Critical Thinking Ability of Grade IX Students on Biotechnology Materials

Noor, Mohd A. b. M.
How Does Social Science Education Drive Marketing Mindset to Shape Entrepreneurial Interest?

Novialassafitri, Sibi D.
Implementation of Differential Reinforcement of Other Behavior (DRO) with Digital Video Assistance to Reduce Maladaptive Behavior in Deaf Children

Novianti, Maria N. R.
Linguistic Challenges in Solving Mathematics Word Problems: A Case of EFL University Students

Novita, Rita
How Pre-Service Elementary Teachers Deal with Mathematical Literacy Problems? A Case Study

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Title

Proceedings of the Eighth Southeast Asia Design Research (SEA-DR) & the Second Science, Technology, Education, Arts, Culture, and Humanity (STEACH) International Conference (SEADR-STEACH 2021)

Editors

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ASSEHR

Volume

627

ISSN

2352-5398

ISBN

978-94-6239-505-3

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Training of Applying Research-Based Learning on Junior High School Social Studies Teacher

Nasution Nasution[1,*] Warsono Warsono[2] Sarmini Sarmini[2] Ketut Prasetyo[3] Nuansa B. Segara[2] Dian Fauziah[2] Tri S. Ulamatullah[2]

[1] *History Education Study Program, Universitas Negeri Surabaya*
[2] *Social Sciences Study Program, Universitas Negeri Surabaya*
[3] *Geography Education Study Program, Universitas Negeri Surabaya*
Corresponding author. Email: nasution@unesa.ac.id

ABSTRACT

The facts that social studies teachers do not yet have a research culture that focuses on improving the quality of social studies learning and slightly varied learning models used during the learning process lead to the urgency of having a teacher training program on improving teachers' understanding and skills on research-based learning (RBL) model. This paper reports the program implementation of a training program on research-based learning involving twenty-seven social studies teachers as the participants from Nganjuk regency, Indonesia. The method of implementation consists of four stages: 1) needs analysis; 2) preparation; 3) program implementation; and 4) activity of evaluation. The main output of this implementation is the improvement of the participants' understanding of research-based learning. Results showed that the level of understanding, the ability to design RBL learning, the ability to apply RBL in learning at school, and the view of the importance of RBL in learning at school increased at 74%, 70.59%, 70.59%, and 87.06%, respectively. This means that RBL application training in learning in schools has a positive impact on the ability of teachers to learn and is a critical learning model to be applied. As a recommendation, it is necessary to train RBL learning to broader school scope.

Keywords: *Junior high school, Research-based learning, Social studies teacher.*

1. INTRODUCTION

Teachers, as the spearhead of education, need to provide the best service. Innovativeness needs to be done by teachers in developing and improving the quality of learning. According to the Law of the Republic of Indonesia No. 14 of 2021, it is stated that one of the teacher's obligations is to plan to learn, implement a quality learning process, and assess and evaluate learning outcomes. Likewise, in social studies learning, to realize good and quality learning quality, social studies teachers must plan, develop, and evaluate systematically recorded to assess the learning outcomes they are trying to develop. Teachers need to conduct a study that can develop an improvement in the quality of learning in the classroom.

Currently, research conducted by teachers is identical to classroom action research [1]. Many other research methods can be applied in teacher research. Although much training is provided both from academics in universities and school supervisors, the level of the research activity carried out by teachers is still relatively unsatisfactory. In a Classroom Action Research (CAR) training conducted by a team, the training results were not optimal because it only produced CAR proposals from 60% of participants, 40% of participants could collect CAR reports, and only 1 participant managed to publish it [2]. Social studies teachers find it challenging to conduct publications and research because there are no ideas for research. The idea does not arise because the culture of reading and writing has not been made something important [3].

Better results are seen in the CAR training conducted for teachers in Sidoarjo Regency. Of the 22 participants who participated, 90% collected CAR proposals [4]. Other difficulties experienced by Social Studies teachers

in conducting research are 1) Difficulty in finding theories and books as references for literature review; 2) Do not understand how to quote from primary reference sources, when quoting, the teacher assumes writing word for word in every source encountered so that the level of similarity is high [5]. This happens because teachers have not maximized software for reference management [6]. These obstacles are common when teachers conduct research and also write scientific articles for publication.

Social studies teachers have known various applications of varied research methods, which can be simply applied to improve learning quality. Habituation and cultivating research are carried out so that teachers have the knowledge and skills needed to conduct research. Learning-based research is one thing that teachers do easily because teachers carry out the research base during the learning process. The teacher starts from the learning planning stage and research planning, carries out the learning process in conjunction with the research process, evaluates learning in conjunction with report writing, and the scientific publication process should be carried out through seminars or scientific journals. Because, teachers can do research with reasonable scientific procedures [7]. Furthermore, a key finding in this practice is that to use the potential of research-based learning, participants need to be actively involved in the research process and then implemented directly into research practice [8]. According to Willegems [9], the increased transfer of reflection and inquiry skills acquired through research into everyday teaching practice. Through this RBL-based training activity, teachers will have the opportunity to add insight and experience in reflecting research results into their teaching practice. In this case, the teacher educator, which in this case is the research team, also could conduct RBL-based training based on the collaborative teacher research scheme, where participating teachers can share attitudes regarding collaboration, reflection, inquiry, and student-centred teaching. because this can have been proven to be able to increase the knowledge and skills of teachers in improving the quality of learning [10].

Social studies teachers in Nganjuk Regency also have a similar situation. Learning-based research culture is still limited to promotion purposes only. At the same time, the primary purpose of researching the learning process is to improve the quality of social studies learning. The skills of social studies teachers in Nganjuk Regency in conducting research are still focused on classroom action research (CAR). For this reason, it is necessary to increase understanding of the variations that can be done in conducting learning-based research. Thus, this paper aims to describe the program implementation of a training program on research-based learning for social studies teachers.

2. METHODS

Based on the situation analysis and seeing the urgency of the existing problems, the solution from the research team is to provide training in the Application of Research-Based Learning Methods so that teachers have a better understanding, skills, and research skills with varied research methods.

The implementation of community service is carried out in several stages, as shown in the following flow:

Figure 1 Stages of the Program Implementation.

The implementation of this program consists of four stages: a preliminary study, program preparation, program implementation, and program evaluation. The stages in this series of programs have their characteristics, and there are also differences between the parties involved in this process. The stages in the flow above are described in detail in the following sections:

2.1. Preliminary Study or Identification of Target Audience

The team conducted a preliminary study to ascertain exactly what the social studies teachers in Nganjuk needed to conduct research. The research team identified the type of research needed, difficulties in planning research, and writing reports. So with the results of the analysis, the research team made careful preparations.

Based on the analysis of the situation faced by partners and various relevant secondary sources, it can be concluded that some of the problems that partners face are as follows:

a. Teachers do not understand the research-based learning model in its application in Social Studies Learning in Schools.

b. The low variation of the learning model applied in social studies learning at school.

c. The understanding and skills of junior high school social studies teachers in Nganjuk Regency in conducting RBL in the classroom are still inadequate.

The problems faced by partners are counter-productive to teachers' demands during the fast development of the world of education. Technological developments, student characteristics changes, and

educational research developments need to be anticipated by developing knowledge, skills, and skills so that social studies teachers in Nganjuk Regency can quickly adapt to current actual conditions.

2.2. Program Preparation

Preparation is carried out after the needs analysis is carried out. Program preparations carried out are as follows: 1) Technical coordination (location and time) of training with partner teachers in Nganjuk District; 2)

Planning training materials and setting up instructors and facilitators for the internal training of the researchTeam; 3) Formulation of training handouts with the research team; 4) Technical discussion of schedule and departure to the training location.

2.3. Program Implementation

The program is implemented in two stages, namely in-service and on-job learning. Details can be seen in table 1.

Table 1. Implementation Activities

Activity Stage	Activity Procedure	Society participation
In-service learning	a. Improving the Quality of Learning IPS. Speaker: Drs. Nasution, M.Hum, M.Ed, Ph.D. b. Types of *research-based learning*. Speaker: Prof. Warsono, MS c. Planning Study. Speaker: Prof. Dr. Sarmini., M. Hum d. Research Implementation and Reporting: Dr. Ketut Prasetyo, M.Sc. e. Publication of Research Results: Dr. Nuansa Bayu Segara, M.Pd.	Participants listen, ask questions, and discuss with questions and answers to the presenters for a deeper understanding of the application of *research-based learning*.
On Job Learning (2-3 Weeks)	a. Help plan research by making research proposals. b. Assist teachers in the preparation of research proposals.	Participants plan research with the assistance of the research Team.

2.4. Program evaluation

This stage is the final stage. Program evaluation is carried out to find out how the target is achieved after program implementation. The evaluation of this program includes the results of an assessment of 1) the usefulness of teachers to the training program; 2) Implementation of workshops; 3) Improved understanding of skills. Furthermore, 4) Output generated during training.

3. RESULTS

The in-service-learning program implementation was held on October 2, 2021, at a vocational school in Nganjuk Regency. Twenty-seven teachers attended the implementation of the program. However, only 17 teachers reported the implementation of RBL on the job learning. The following is one of the processes in which one of the resource persons provides material to the training participants.

After implementing the research program in Nganjuk Regency, an evaluation was carried out through a questionnaire to determine the achievements

in this training program. There were 22 questions related to identity and understanding of the RBL concept presented at the workshop. The following shows the achievements experienced by social studies teachers in Kab. Nganjuk after attending the training.
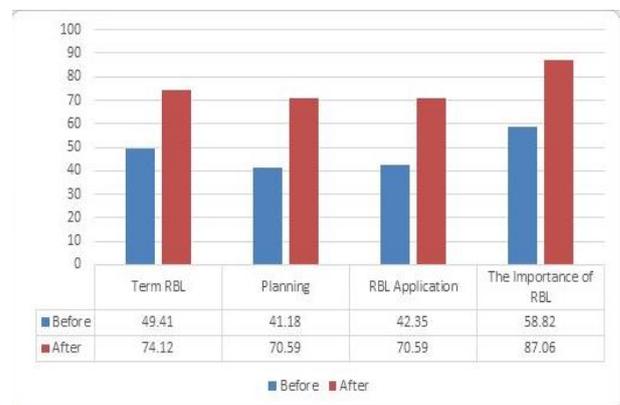

Figure 2 Research-based learning training achievements.

Figure 2 shows several questions related to understanding the concept of RBL. In the graph, "The

term RBL" is the result of questions that lead to the trainee's understanding of the concept of RBL before and after the training. The results show that the level of understanding of social studies teachers on the term RBL before the training is still not good, while after the training, the level of understanding increases at 74% and is in the pretty good category.

Meanwhile, when asked whether the teacher could plan RBL lessons before the training, his ability level was only 41.18%, which was poor. Meanwhile, after training, the ability to design RBL social studies teachers can reach up to 70.59%, which is relatively good.

Furthermore, when the teacher was asked about the ability to apply RBL before the training, it was found that the social studies teacher's ability level only reached 42.35%, which means it is still not good. After receiving the training, participants felt they could apply RBL in the classroom with achievement of 70.59%, which was included in the reasonably good category.

The last question relates to the teacher's attitude towards RBL. The teacher was asked what his views were on the importance of RBL for social studies learning. Figure 2 shows the importance of RBL at 58.82%, which means it is considered less critical. Meanwhile, after the training, participants understood the benefits of RBL for students, it increased to 87.06%. This means that according to the teacher RBL is a vital learning model to be applied.

Furthermore, to find out the increase in understanding, planning, and application skills and the importance of RBL before and after training. Table 2 shows a moderate increase in the understanding of social studies teachers on the term RBL. Moderate improvement also occurred in the ability of teachers to plan RBL for classroom learning. Furthermore, there was an increase in the medium category for the teacher's ability to apply RBL.

Table 2. N-Gain Understanding of Research-Based Learning

No	Aspect	N-Gain	Note:
1	RBL term	0.49	Currently
2	RBL Planning	0.50	Currently
3	RBL App	0.49	Currently
4	The Importance of RBL	0.69	Tall

Finally, there was a high increase in the understanding of social studies teachers related to the implementation of RBL in the classroom between before and after participating in the training. This increase seems to occur because teachers realize that

RBL has advantages that students can utilize. Through RBL, the active learning of students can be accommodated. In addition, RBL is a model that can develop students' critical and systems thinking skills.

The usefulness of the training materials, especially for RBL, received a very positive response. 47.1% stated that the RBL material was beneficial. Furthermore, 35.3% said it was helpful. Meanwhile, 11.8% stated that it was pretty helpful, and 5.9% said it was not helpful. If it is calculated, the level of usefulness of this RBL material is 84.71%. This figure shows that RBL material has high usefulness for social studies teachers in Nganjuk Regency.
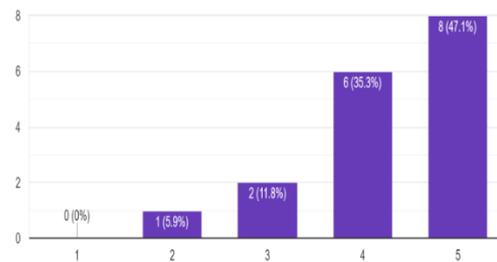

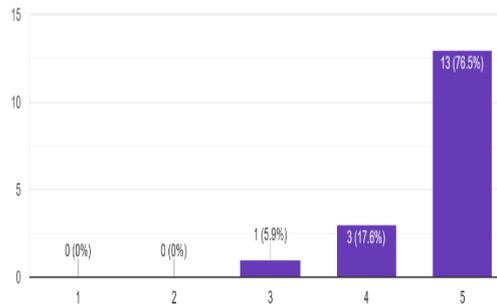**Figure 3** The Benefits of RBL Materials for Participants.

Figure 4 Overall Program Benefit.

Table 3. Description of Figure 4

No	Answer Category
1	Useless
2	Less Useful
3	Quite Useful
4	Beneficial
5	Very Helpful

Furthermore, Social Studies teachers in Nganjuk Regency were asked questions related to the entire program. This question was asked because to see the general response given after attending the training. Because in this training, not only RBL material is given. However, the basics of the learning paradigm are also thoroughly explained. The public benefit of this program is illustrated in Figure 2. It can be seen that 76.5% said that, in general, this program was beneficial.

Furthermore, 17.6% stated that this training was helpful. Meanwhile, only 5.9% said it was pretty helpful, and 0% of the participants said it was more minor and not helpful. These results show that the achievement of program usefulness reaches 94.12%, which means that, in general, the level of usefulness is very high for social studies teachers in Nganjuk Regency.

4. CONCLUSION

From the study results, it can be concluded that teachers rarely use RBL in classroom learning. This can be seen from the study results that only half of the respondents did not understand RBL. The implementation of RBL application training for junior high school students who initially received less attention from teachers, after training the teachers realized the importance of implementing RBL in the learning process in schools.

The results of this study recommend the need for similar training to social studies teachers at other schools in Nganjuk Regency.

AUTHORS' CONTRIBUTIONS

All authors conceived and designed this study. All authors contributed to the process of revising the manuscript, and in the end, all authors have approved the final version of this manuscript.

ACKNOWLEDGMENTS

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