Series: Advances in Social Science, Education and Humanities Research

Proceedings of the International Conference on Educational Sciences and Teacher Profession (ICETeP 2018)

HOME

PREFACE

ARTICLES

AUTHORS

ORGANISERS

PUBLISHING INFORMATION

Welcome to the 1st International Conference on Educational Sciences and Teacher Profession (ICETeP 2018). It is a great honor and pleasure to bring you the collection of articles from the ICETeP 2018. This conference was organized by the Faculty of Education and Teacher Training – University of Bengkulu, Indonesia, and was held on University Bengkulu campus on October 26-28, 2018.

Please click here for the conference website.

▸ PROCEEDINGS   ▸ ABOUT

▸ JOURNALS   ▸ NEWS

▸ BOOKS   ▸ CONTACT

▸ PUBLISHING SERVICES   ▸ SEARCH

Series: Advances in Social Science, Education and Humanities Research

Proceedings of the International Conference on Educational Sciences and Teacher Profession (ICETeP 2018)

HOME

PREFACE

ARTICLES

AUTHORS

ORGANIZERS

PUBLISHING INFORMATION

Welcome to the 1st International Conference on Educational Sciences and Teacher Profession (ICETeP 2018). It is a great honor and pleasure to bring you the collection of articles from the ICETeP 2018. This conference was organized by the Faculty of Education and Teacher Training – University of Bengkulu, Indonesia, and was held on University Bengkulu campus on October 19-23, 2018.

The current condition of educational sciences and teaching profession in Indonesia, particularly in educational management, learning & teaching process, still requires revitalization. Interaction and communication between researchers from many regions in Indonesia can generate ideas and research collaborations to address actual issues in educational sciences and educational teacher profession. The research formed from such collaborations will be able not only to improve an institution but also to improve self-creativities, innovativeness, and competitiveness to continue providing competence human resources. Therefore, the conference theme is "Revitalization in Educational Sciences and Teaching Profession toward Industry Revolution 4.0 Era".

We would like to express our gratitude to all keynote speakers and presenters from around the world who travelled to Bengkulu to deliver and exchange their ideas. Our appreciation goes to all the committee members who have worked hard to make this event possible. This volume of proceedings provides an opportunity for readers to engage with a selection of refereed papers that were presented during the ICETeP 2018 conference. Scopes of the conference are ranged from, but not limited to Educational Management and Policy, Curriculum and Educational Technology, Teaching Profession, Specific Education, Science Education, Other Areas of Education.

We wish scholars, professionals, and stakeholders from all parts of country and all regions of the world enjoy and discover valuable engagement with authors' ideas in sustaining professional development in the area of Educational Sciences and Teacher Profession.

The Editors
Ade Gafar Abdullah (Editor-in-Chief)
M. Lutfi Firdaus
Irma Widaty
Suhil Arryad
Asep Bayu D. Nandiyanto
Ari Arifin Danuwijaya
Cep Ubad Abdullah

Proceedings of the International Conference on Educational Sciences and Teacher Profession (ICETeP 2018)

+ Advanced search

SEARCH

83 articles

Effectiveness of the Student Council Programs in Vocational High School

Anisah Anisah, Tia Ayu Ningrum, Yulia Ulfa

Student council is problem solving for that. The Purpose of this study is to describe the effectiveness of the implementation program student council in Vocational High School with indicator plan/program, efficiency facilities and infrastructure, and goal. The method is qualitative. Questionnaire has...

details

download PDF

Increasing the Competence of Scientific Publications of Technology-based Primary School Teachers in Indonesia

Dihamri Dihamri, Haimah Haimah, Abditama Srifitriani

The purpose of the study is to increase the competencies of scientific teacher's publication. Teachers are not hampered in promotion and other position. The method used to achieve the goal is Training for 36 hours. Face to face for 6 times of meetings, individual guidance by WhatssApp (WA) through chat...

details

download PDF

Constructing the Test for Describing the Students' Problem Solving Skill to Mitigate the Earthquake Disaster

Henny Johan, Eko Swistoro, Syaiful Rohman, Deny Parlindungan, Sipriyadi Sipriyadi

A set of problem solving test had been constructed to describe the problem solving skill to mitigate the earthquake disaster emergency conditions of the junior high

school in the coastal area of the city of Bengkulu. The method which is utilized in this study is R and D, quasi experimental was conducted...
details
download PDF

Ethnomathematics and Outdoor Learning to Improve Problem Solving Ability

Wahyu Widada, Dewi Herawaty, Abdurrobbil Falaq Dwi Anggoro, Azes Yudha, Misi Kurnia Hayati

Students often have difficulty doing mathematical problems. The outdoor learning with ethnomathematics approach is one solution. The purpose of this study was to determine the increase of the problem solving ability of senior high school students through the application of outdoor learning model based...
details
download PDF

Increasing the Students' Learning Motivation and Understanding of Concept by Using Examples and Non-Examples Learning

Nurul Astuty Yensy

Learning motivation is very necessary as an encouragement for someone to do learning activity so that learning achievements can be achieved and it can be influenced by the method or learning strategy used, and then previous research examining the learning method of Example and Non-Example had never discussed...
details
download PDF

The Improvement of the Understanding of Mathematical Concepts through the Implementation of Realistic Mathematics Learning and Ethnomathematics

Dewi Herawaty, Wahyu Widada, Khathibul Umam Zaid Nugroho, Abdurrobbil Falaq Dwi Anggoro

The easiness of learning can be experienced if learning contents and contexts are related to students' daily activities. One of them is a learning approach that has realistic characters based on ethnomathematics. The purpose of the study was to determine the influence of ethnomathematics and realistic...
details
download PDF

[Internal and External Quality Audit in Efforts to Build High Quality in the College of Poltekkes Kemenkes Bengkulu](#)

Darwis Darwis

Abstract Higher Education has the responsibility to carry out quality assurance activities autonomously and independently. In improving the quality, Poltekkes Kemenkes Bengkulu has conducted Internal Quality Audit (AMI) by Auditor and External Quality Audit with ISO 9001 by SAI Global. This research...

details
download PDF

[Design of Internet Integrated Students Worksheet for Developing the Ability of Mathematical Reasoning](#)

Selvi Riwayati, Yuriska Destania

The learning process is the availability of adequate learning resources to support student learning activities. Learning resources that are often used in lecture activities so far are textbooks of publishers that were also used in the course of Introduction to Probability. However, the use of the book...

details
download PDF

[Academic Supervision by School Principals at State Elementary Schools in Indonesia](#)

Haimah Haimah

This study was aimed to examine the implementation of academic supervision planning program, including the follow-up activity of academic supervision and the constraints faced by principals in conducting academic supervision. This study was conducted at one elementary school in Bengkulu, Indonesia and...

details
download PDF

[Abstract Thesis Analysis in Linguistics, Literature, and Language Teaching Fields](#)

Arono Arono

Not all abstracts written by students are in accordance with systematic abstract in a related field of science. In fact, abstracts are the main and important part in the description of the contents of a scientific work so the reader becomes interested in continuing his reading. This article aims to describe...

details
download PDF

Character Education through People's Story

Aceng Joyo

The purpose of writing is to describe and integrate teaching material with learning materials for students by utilizing folklore for students in the material to preserve the value of local wisdom through folklore. Based on the results of the learning process in class X of Seluma Bengkulu 1 Vocational...

details

download PDF

Improve Language Learning in Early Childhood

Lydia Margaretha

Does this study raise the problem of how to improve children's language skills by telling stories in PAUD Dahlia Kota Bengkulu? And the child's response to storytelling activities? This study aims to improve children's language skills through storytelling in PAUD Dahlia Kota Bengkulu. This study uses...

details

download PDF

The Influence of Job Satisfaction, Organizational Commitment, and Team Work on the Elementary School Supervisor Performance

Sumarsih Sumarsih

The objective of this research is to analyze the influence of the job satisfaction, organizational commitment, and team work on the elementary school supervisor Performance. The research was conducted by using survey. The population are the elementary school supervisors in Bengkulu Province. The sample...

details

download PDF

The Effects of Learning Resilience and Stress on Student Learning Achievement

Zakaria Zakaria

The purpose of this study is to know the effects of learning resilience and stress on student learning achievement. Samples were selected by random technique, as many as 32 students. Data collection was carried out using two questionnaire instruments (i.e. resilience questionnaire and stress questionnaire),...

details

download PDF

[The Development of Dual Mode Experiment Model Based on Physics Problem Solving: Comparing learning achievements between real and virtual experiment](#)

Desy Hanisa Putri, Sutarno Sutarno, Eko Risdianto, Dedy Hamdani

Experimental models based on physics problem solving to enhance critical thinking and problem solving skills (CTS and PSS) have been successfully developed, both real and virtual experiments. The experimental stages consist of problem descriptions, understanding problems, method questions, predictions,...

details

download PDF

[The Cognitive Structure of Students in Understanding Mathematical Concepts](#)

Suharto Suharto, Wahyu Widada

The mathematics was a difficult subject for students to study in senior high school. The purpose of this study was to determine the role of cognitive structure of students in understanding mathematical concepts. The Samples were randomly selected as many as 140 students from the whole students of senior...

details

download PDF

[The Role of Self-Efficacy and Mathematics ability in the Problem Solving Mathematics](#)

Syaipul Amri, Wahyu Widada

The problem solving skills are part of learning mathematics and an important component of 21st century education. But students often experience success doing it. The purpose of this study was to determine the relationship between mathematical abilities, self-efficacy and problem solving abilities. This...

details

download PDF

[Determining Factors of Success of Character Education Management and its Implementation Facing of the Era of Industrial Revolution 4.0: An analysis at elementary school, Province of Bengkulu](#)

Rambat Nur Sasongko

Character education has been carried out in elementary schools, both public and private. But in reality there are still many students who have less commendable characters. This condition is suspected to be less successful character education. There are a number of determinants of the success of character...

The Relationship between Motivation, Engagement and Performance of Employee

Bustasar Bustasar, Sumarsih Sumarsih, Khathibul Umam Zaid Nugroho

The purpose of this study was to find out the relationship of motivation, engagement and performance of employees. The study is a survey. Samples were randomly selected as many as 200 employees. The population is whole employees at Office of the Ministry of Religion throughout Bengkulu Province. There...

The Influence of Students Sentence Structure Knowledge on Writing Essays

Linda Silawati

The Influence of Students Sentence Structure Knowledge on Writing Essays. This study uses survey methods with path analysis techniques. The population of this study is students of Sekolah Dasar Negeri Bengkulu Tengah school year 2017/2018, and a sample of 5th grade students, totaling 150 people, on average...

The Influence of Principal Leadership and Organizational Culture on the Teachers' Performance

Renni Yourneli

Optimal teacher's performance is one of the main factors in the student's learning achievement. Therefore, the study of variables that are thought to have an influence on teacher's performance is very important. The purpose of this study is to analyze the influence of (1) principal's leadership on...

The Effect of Thematic Learning Based on Rural and Urban Environment on the Elementary School Students' Knowledge about Their Living Place

Dwi Anggraini, Ansyori Gunawan, Sri Dadi

The purpose of this study was to determine the effect of thematic learning based on rural and urban environments on the elementary school students' knowledge in

Bengkulu about my Living Place. The research design used in this study was the only matching pretest - posttest control group design. The population...
details
download PDF

Impact of Learning Assistance on Improving the Pedagogic Competence of Tutors

Anan Sutisna, Henny Herawati B. R. Dalimunthe, Ahmad Tijari

This study aims to describe the impact of learning assistance on enhancing pedagogical competence of tutors in non-formal education program for adult, especially inequality education learning at the Community Learning Center (CLC). The implementation of this learning activity tutor competency standards....
details
download PDF

The Influence of Project Based Learning Model in Thematic Learning by Using Scientific Approach on the Elementary School Students

Neza Agusdianita, Victoria Karjiyati, Hasnawati Hasnawati, Dalifa Dalifa

The purpose of this study was to examine the effect of Project Based Learning model in thematic learning by using a scientific approach to the knowledge, skills and students' environmental care attitudes on the elementary school students in IV grade Bengkulu. This research was quantitative research....
details
download PDF

Teaching Oceanography Using Ocean Data View Software

M. Lutfi Firdaus, Deni Parlindungan, Rina Elvia, Eko Swistoro, Agus Sundaryono, Lena Rahmidar

The purpose of this study was to improve students understanding of introductory oceanography with the aid of a computer program. The software that we used is Ocean Data View, abbreviated as ODV, which is proprietary yet freely available software for the analysis and visualization of oceanographic and...
details
download PDF

[Building Critical, Tenacious, and Confident Characters through Application of APOS Model: Case study in integral calculus learning](#)

Hanifah Hanifah

APOS Model is a model of Mathematics Learning Based on APOS Theory, which is student-centered and has syntax with phases: Orientation, Practicum, Small Group Discussion, Class Discussion, Exercise and Evaluation. The Worksheet is designed to support the APOS model, which is contain activities for each...

details
download PDF

[Development of Economic Mathematics Learning Materials Based on Problem Based Learning](#)

Farida Kohar, Kuswanto Kuswanto

The purpose of this study was to produce teaching materials for economics based on Problem Based Learning in an effective and interest-oriented Economic Education Study Program based on an enhanced contextual and ICT-based economic education program curriculum. This study uses the Borg and Gall model...

details
download PDF

[Increasing Self-efficacy through Inclusive Education for Autistic Children](#)

Dewi Krisnawati, Khathibul Umam Zaid Nugroho

The purpose of this study was to determine the self-confidence of autistic children through inclusive education. The population of autistic elementary school students in the Kota Bengkulu with a sample of 37 students (SD) in the Kota Bengkulu was chosen randomly. The test results were analyzed using...

details
download PDF

[Improving Children's Fine Motor Skills through Pencil Skills](#)

Sri Saparahayuningsih, Badeni Badeni

This study aims to determine fine motor skills in activities through pencil skills in children. This study used a classroom action research approach with a collaborative approach consisting of several cycles. Data collection methods used observation techniques and student work. Actions to improve fine...

details
download PDF

Strategy in Improving Research Productivity of the Lecturers

Muhamad Suhardi, Nurhattati Fuad, Unifah Rosyidi

This study aims to express comprehensively about motivation in lecturers' research, institutional policies in supporting the research process, and lecturers' research productivity in teacher training and education science Mataram. This research is a qualitative research by using the intrinsic case study...

details

download PDF

Rasch Model Analysis on Grammar Tests of "Stepping the 5 Stairs A" Technique for College Students

Satria Agust, Gatot Subroto

This research is aimed at: (1) explaining the role of Rasch model to analyze research instrument used in research and development on grammar technique "Stepping the 5 Stairs A" for college students; and (2) analyzing research instrument used in research and development on grammar technique "Stepping...

details

download PDF

Ethnobotanical Study of Medicinal Plants by Lembak Ethnic Bengkulu as a Source of Learning Biology

Kasrina Kasrina, Endang Widi Winarni, Bhakti Karyadi, Aceng Ruyani

This research aimed to study diseases can be healing by Lembak Ethnic and to document potential plant for diseases healing. Medical Plants has been determinate. 62 species medical plants documented are used by local people as alternative medicine. The diseases that can be treated include: kidney, cancer,...

details

download PDF

Dualism System of Higher Education in Indonesia

Moch Iqbal

The higher education system in Indonesia still adheres to two sides, namely science education and religious education on the other side. The separation of the two parts of science between science and religion seems to have not found a common ground. Until now, the integration between the two continues...

details

download PDF

Effect of Self Efficacy and Emotional Intelligence on Teacher Performance

Saipul Efendi, Khathibul Umam Zaid Nugroho

The purpose of this study was to determine the effect of self-efficacy and emotional intelligence on teacher performance. The population of this research were the teachers of province of South Sumatra which were a teacher of vocational high schools in South Sumatra. Test results were analyzed using inferential...

details
download PDF

Development of Blended Learning based on Web and Augmented Reality

Eko Risdianto

In this 4.0 revolution era - the cyber physical, internet of thing, big data and cloud computing- everyone will face disruptive era. A university as a producer of educated human resources should be able to produce a high quality graduates. One of the solutions to reach the goal is by using augmented...

details
download PDF

Character Indexes of the People in the Works of Raja Ali Haji

Abdul Malik, Isnaini Leo Shanty

Character education has been re-implemented in every level of educational institutions in Indonesia. This paper is a result of the research of character indexes to the people in the works of Raja Ali Haji. Five works of Raja Ali Haji, namely Syair Abdul Muluk, Gurindam Dua Belas, Thamarat al-Muhimmah,...

details
download PDF

The Impact of Principal Leadership Dimensions on School Capacity

Wildansyah Lubis, Gaffar Hafiz Sagala

On the preliminary study, it was found that there were five critical dimensions of Principal Leadership based on sample perceptions in North Sumatra. Following those findings, this study aims to further investigate the influence of those five dimensions on school capacity. The impact of these dimensions...

details
download PDF

[The Implementation of Inquiry Training Model to Improve Student's Independency Learning](#)

Bambang Sahono, Lis Erna Tri Maryanti

The purpose of this research is to find inquiry training instructional model in order to improve student's independency learning. Classroom action research approach was implemented in this research. The subjects of this research were students of class or grade VI at Public Elementary School IX in South...

details
download PDF

[The Models of Assessment to Accommodate Instructional Domain in Blended Blended Learning](#)

Alwen Bentri, Ulfia Rahmi, Abna Hidayati, Dedi Supendra

This article is written as a report of the design phase of assessment instrument models of blended learning in higher education. This study is to identify the assessment models which accommodate three instructional domains, namely: cognitive, affective, and psychomotor. It is important work to be designed...

details
download PDF

[An assessment of Higher Order Thinking Skills (HOTS) Based on Rasch Models of Student in Physics Learning](#)

Nirwana Nirwana, Syaiful Rochman, Alif Yanuar Zukmadini

This study I am instrument used for high-level learning at senior high school. Type of research is development of three stages, namely: initial development of instruments, content and empirical validation, and measurement. Instruments that have been validated by experts, tested on 95 students. The next...

details
download PDF

[Student's Problem in Writing Results and Discussion Section of Research Articles for International Journals](#)

Dian Eka Chandra Wardhana, Nafri Yanti, Susetyo Susetyo, Suhartono Suhartono

In writing a research article student are expected to be able to write a good result and discussion in fact, they tend to use descriptive style which cannot categorize as a good result and discussion. Therefore, this research is aimed at describing students learning model in writing result and discussion....

details
download PDF

[The Impact of Contextual Teaching and Learning (CTL) Ability in Understanding Mathematical Concepts](#)

Azes Yudha, Sufianto Sufianto, Boby Engga Putra Damara, Budi Taqwan, Saleh Haji

The purpose of this research was to identify the impact of Contextual Teaching and Learning (CTL) on the ability of understand of mathematical concepts. This study used a qualitative descriptive approach to the type of study is a library research, the data obtained from various sources related to the...

details

download PDF

[Profile of Prospective Teacher in the Special Capital Region of Jakarta](#)

Gantina Komalasari, Devie Yundianto, Lussy Dwiutami Wahyuni, Wening Cahyawulan

The purpose of this study was to find out and obtain empirical data about the profile of teacher's candidates regarding gender, teaching experience, teaching attitudes, social competencies, personality competencies, and teaching interests. The method used in this study is the descriptive method with...

details

download PDF

[Equating Method for Small Sample: Comparative research on nominal weight mean and linear method](#)

Deni Iriyadi, Wardani Rahayu, Dali S. Naga

The purpose of this study was to determine the effectiveness of the Nominal Weight Mean Equating and Linear methods on equating using a small sample as a tool for teachers to equate students' scores in the class. This research is included in comparative research comparing two equating methods. The number...

details

download PDF

[Investigating the Impact of Hard Work on the Achievement of Islamic Education and Discipline: Focus on the cognitive abilities of vocational high school students](#)

Agus Jayadi, Gaguk Margon, Suyono Suyono

Islamic religious education (PAI) subjects are the main subjects in high school and have different characteristics from other subjects. However, there is very little research on PAI learning outcomes. The purpose of this study was to determine the effect of the character of discipline, and hard work...

English for Specific Purposes in Geography Learning

Yosi Marita, Mirna Yunita, Ade Hidayat

If a lecturer applies a less precise and boring method, the teaching and learning process will not go well. Thus, it is necessary to improve the teaching of English for students by developing more appropriate learning model focusing on learners' needs. It is in line with the application of the English...

Implementing Realistic Mathematics Education for Elementary Schools in Indonesia

Anselmus Inharjanto, Lisnani Lisnani

In mathematics learning, concepts and contexts are required that students are able to learn from real-life environment. However, teachers generally equip students with formulas without being accompanied by the ability to comprehend basic concepts. Mathematics learning will indeed be enjoyable if it is...

Exploring EFL Teachers' Perception of Pedagogical Task

Erwin Pohan, Muhammad Candra, Suhardi Suhardi

Pedagogic competence is one of the competences that should be owned, comprehended, and mastered by teachers and lecturers to conducting professional job in Indonesian context and Bintan Regency particularly. It can be seen from their ability to help students to practice target language through pedagogical...

Mapping Teacher Distribution Analysis with Digitation Technology Implementation to Improve Education Management in Bengkulu City

Nirwana Nirwana, Arie Vatresia, F. P. Utama

Embedded technology in education management is one of the most important things as an aid for Education Department. Not only help in learning process, the use of technology has been also used in many part of education to improve learning process. In this paper, we proposed the idea of mapping the digitation...

[The Effect of Fable on Increasing Students' Understanding of Plane Figure Concept](#)

Lisnani Lisnani

Fables are stories that tell the lives of animals behaving like humans and having moral message. Fable is a media in learning mathematics about plane figure. The purpose of the study was to improve students' concept understanding and learning motivation in plane figure topic. The types of the research...

details

download PDF

[Using Teaching Materials Outdoor Learning to Improve Mathematical Problem Solving Ability](#)

Wanti Asmara, Lia Waroka, Eka Novrianti Prana Putri, Detty Syefriyani, Tanti Novita, Saleh Haji

The purpose of this study is to determine the improvement of students' mathematical problem solving. The teaching materials consist of textbooks and LKPD. This type of research is quasi experiment (quasi-experimental) with the research population, namely grade VII students of Bengkulu City 19 Middle...

details

download PDF

[The Development of Blended Learning Media for Flipped Classroom Model on Direct Learning in Process Evaluation Courses and Chemistry Learning Outcomes](#)

Hairida Hairida

The development of knowledge and technology is a challenge for educators to be creative in learning. Innovative and interesting learning media is needed now to anticipate the times. This study aimed to develop blended learning media with a flipped classroom model on direct learning in the course of evaluating...

details

download PDF

[The Application of Dick and Carey Learning Design toward Student's Independence and Learning Outcome](#)

Johanes Sapri, Nesna Agustriana, Raden Gamal Tamrin Kusumah

The purpose of this research was to describe the application of Dick and learning design in the course of ICT Design and Multimedia as well as instructional impact and it's accompanied as learning outcomes for students. The design used in this study is Classroom Action Research (CAR) with steps of planning,...

details

download PDF

[Development of Laboratory Worksheet with Argument-Driven Inquiry Model to Enhance the Student's Argumentation Skills](#)

Neni Hasnunidah, Undang Rosidin

Successful investigation in the laboratory was supported by a student worksheet. This study aims to measures the validity and effectiveness of laboratory worksheet on a topic the Excretory Systems in Humans that has been developed based on the Argument-Driven Inquiry Model. The result of the research...

details
download PDF

[Student's Interest and Creativity in Cultural Art and Craft Lessons](#)

Ignasius Putera Setiahati, Lisnani Lisnani

The research objectives are to discover students' learning interest and to investigate students' creativity in creating mosaics, collages and montages by using leaves. These are quantitative and qualitative research. The participants were 25 students of grade IVA in an Elementary School. Data collection...

details
download PDF

[Changes in the Behavior of Junior High School Students in the Learning Process](#)

Andika Nur Hardianto, Nevrita Nevrita, Nurul Asikin

Changes in learning outcomes from student changes, it is expected that future generations will emerge who are well-behaved, qualified and able to get along with the surrounding community. This research method uses cross section method in which research is based on data. Data analysis was carried out...

details
download PDF

[Development of a Learning Module Based on Biofuel Synthesis Laboratory Research from CPO Residual of Palm Oil Mill Effluent (POME) with Ultrasonic Irradiation Assistance](#)

Agus Sundaryono, M. Lutfi Firdaus, Nurlia Latifah, Arsela Eko Listiono

Indonesia is the largest palm oil producer in the world, of which 19 Palm Oil Mills (POM) are in Bengkulu Province. POM in Bengkulu generally processes palm fruit bunches into Crude Palm Oil (CPO) with the by-products of Palm Oil Mill Effluent (POME) which contains CPO residues (CPO-res) as much as 0.6-1.2%....

details
download PDF

[Analysis Study of Guidance and Counseling Teachers Competency](#)

Rita Sinthia, Mona Ardina, Anni Suprapti

The purpose of this study was to conduct an analysis of teacher competency guidance and counseling, with a case study in the city of Bengkulu. The methods used are developing study instruments for teacher competency analysis of guidance and counselling, develop scoring techniques and calculations and...

details

download PDF

[The Implementation of Multicultural-Based Theological Education in Bengkulu City](#)

Desy Eka Citra Dewi, Elfahmi Lubis, Zubaedi Zubaedi

One of significant keys that contribute to the success of preserving the unity in cultural diversity of multiculturalism is to build respect and tolerance. This study aims at investigating the implementation of multicultural-based theological education and the barriers of its current practices at Sint...

details

download PDF

[Organizational Culture and the Improvement of Teacher Performance](#)

Khairiah Khairiah, Zakaria Zakaria

This study aims at describing the efforts to improve teacher performance. The method used in this research is a quantitative, descriptive and verification approach. The type of investigation is kausalitas and Path Analysis techniques with the help of SPSS. The component that becomes a benchmark is the...

details

download PDF

[A Teacher's Perception of Print and Digital Literacy in Early Childhood](#)

Mona Ardina, Rita Sinthia, Anni Suprapti

This paper describes the implementation of literacy used by early childhood teachers in language learning in schools. With the background of the modern era and globalization, the purpose of this study was whether print literacy is still necessary and important to be used in early childhood language learning...

details

download PDF

[Development of Audiovisual Media Based on Local Excellences of South Sumatra for Science Learning](#)

Suratmi Suratmi, Lucia Maria Santoso, Laihat Laihat

This study aims to develop audiovisual media based on the local excellences of South Sumatra for science learning in elementary school. The method used were research and development methods. The Research and Development methods used adopted steps from the ASSURE learning media development model. The...

details

download PDF

[Character Education Based on Psychology Perspective in the Industrial Revolution Era 4.0](#)

Ove Roza Putri R. Linge, Fitriah Khoirunnisa, Friska Septiani Silitonga

Journal discusses character education in senior high school students in the era of ir.4.0. the method used is the literature review approach. The results obtained from this study are that character education is really needed in the era of ir. 4.0. This riset result can be used as a reference for character...

details

download PDF

[Need Analysis in Developing Drug Abuse Prevention Module for High School Guidance Curriculum Services](#)

Michiko Mamesah, Hilma Fitriyani, Happy Karlina Marjo, Karta Sasmita

In order to provide prevention services for drug abuse, school counselors need to be assisted with module as the media that provides guidance material which its more comprehensive nature. This study tries to describe the availability of modules as a medium of guidance material for drug abuse prevention...

details

download PDF

[An Analysis of Phubbing Behaviour: Preliminary research from counseling perspective](#)

Afdal Afdal, Alizamar Alizamar, Ifdil Ifdil, Zadrian Ardi, Indah Sukmawati, Zikra Zikra, Asmidir Ilyas, Miftahul Fikri, Yuda Syahputra, Hariyani Hariyani

Along with technological advancements and increasingly modern times, ways of communicating between individuals have changed. Individuals communicate no longer directly with their interlocutors, but individuals prefer to communicate through social media with the help of a Smartphone. This phenomenon mostly...

details

download PDF

[Critical Thinking Ability and Students' Learning Achievement of Sociology Education in the Industrial Sociology Courses](#)

Abdullah Muzakar, Nurdin Ibrahim, Priyono Priyono

This study aims to showed that the students' learning achievements of Sociology Education were influenced by the critical thinking ability of students themselves; both were taught using Group Investigation (GI) and Direct Instruction Learning strategies. The participants of this study were Sociology...

[details](#)
[download PDF](#)

[Applying Role-Play Method in Enhancing Social Intelligence of Early Childhood Learners](#)

Indrawati Indrawati

Teachers at the kindergarten schools often use motonous teaching methods resulting in student's poor motivation in learning processes. It is expected that the teachers use various teaching strategy in or der to improve not only the students interest in learning but also their social awareness. This research...

[details](#)
[download PDF](#)

[Identification of the Leadership Potential of the Post Graduate Students in the Field of Educational Management](#)

Manap Somantri

This study aims to identify students' leadership potentials for their career projections and to improve their leadership potentials to become the educational leaders. The participants were 27 Master's degree students. The data were collected through leadership potential tests, including situational responses,...

[details](#)
[download PDF](#)

[Introducing Outdoor Learning in Science and Mathematics to Elementary School Teachers via Professional Development](#)

Irwan Koto, Agus Susanta

Integrating outdoor learning into indoor learning experience is excellent way to enrich students learning experiences in science and mathematics. To achieve the objective, professional development (PD) is conducted to 12 elementary school teachers to introduce outdoor learning. Teacher PD program consists...

[details](#)
[download PDF](#)

Promoting Deradicalization in Higher Education through Reconstruction of Islamic Learning

Aziza Aryati

One of the problems that had received the attention of almost all universities in Indonesia was the radicalization of thought which resulted in anarchism, intolerance and even violence in the name of religion. Radicalism at least at the level of thought had received support from the campus community....

details

download PDF

The Effect of Jumping Task and Collaborative Activity on Enhancement of Student Critical Thinking Ability

Sri Hastuti Noer, Neni Hasnunidah, Abdurrahman Abdurrahman

The development of critical thinking ability needs attention in learning. To achieve this goal, collaborative activities must create in learning. The teacher can giving students a jumping task as a stimulated to collaborative activities. This study aims to examine in depth the results of learning observations...

details

download PDF

Prospective Teachers Input Based on Intelligence Quotient in the Institute of Teacher Training and Education

Sofia Hartati, Aip Badrujaman, Wening Cahyawulan

The objective of this study was to describe intelligence quotient (IQ) of prospective teachers in the Institute of Teacher Training and Education. The method used in this study is a quantitative descriptive study method (survey) to describe the conditions that occur in the situation. A total sample of...

details

download PDF

Improving Motor Skills and Math Logic through the Method of Traditional Games Engklek in Early Childhood

Khoirotul Badriyah

The purpose of the research is to increase motoric ability and mathematical logic for early children through playing engklek traditional game. The basic subject of

the research is on group B Permata Bunda kindergarten by using the experimental design. The method of this research is action research which...
details
download PDF

Developing and Validating an Instrument of In-service Teachers Responses to Knowledge-Based Teacher, Engagement, and Expectation in Teacher Profession Education Program in Indonesia: Integrating factor analysis with Rasch modeling

Patuan Raja, Bambang Setiadi, Abdurrahman Abdurrahman
This paper reports on the use of several quantitative analytical approaches, including Rasch analysis, to examine teacher responses to questionnaire items that explore opinions related to knowledge-based teacher, involvement, and expectations in the Teacher Professional Education Program in Indonesia....
details
download PDF

The Effect of Internet Utilization on the Students Academic Achievement in Educational Administration Study Program

Mohamad Muspawi, Ahmad Hariandi, Dwi Nanda Ramadan
The aim of this study was to find out the effect of internet utilization media as a learning resource on the academic of student's achievement in Educational Administration Study Program. A quantitative method with a survey design was employed in the study. The population used in this study was the of...
details
download PDF

Quality Mapping Analysis of Methods, Media and Learning Resources Usage at Junior High School

Muzanip Alperi, Dewi Handayani
This research is to find out the description of the use of learning methods, learning media, learning resources and also look at the correlation between learning methods, learning media, and learning resources towards the achievement of junior high school graduates' competency standards in the city of...
details
download PDF

Constructing EFL Teacher Knowledge Base: A case study of the fourth year EFL pre-service teachers

Feni Munifatullah

Pre-service teacher education plays an imperative role in constructing the knowledge base of EFL teachers. The objectives of the study are to draw an initial classification of the elements of teachers' knowledge base based on the types of knowledge and the kind of resources that the pre-service teachers...
details
download PDF

Context and Language Learning Strategies: Thai students' strategies within the realms of learning English and Indonesian

Flora Flora, Patuan Raja

This study aimed at finding the learning strategies of Thai students within English and Indonesian during their study in Lampung, Indonesia. This study applied the descriptive quantitative design; the subjects were 13 female Thai students taking a bachelor's degree in Indonesia; and the instrument used...
details
download PDF

The Exploration of History, Potential and Management of Earthquake in the Context of Mapping and Empowerment of Learning Community

Sugeng Widodo, Bujang Rahman, Abdurrahman Abdurrahman

One of frequent natural disasters in Lampung Province is earthquake. This natural disaster often cause loss for public, both properties and life. The earthquake threat shall be worse when people are unable to deal with. The perspective of earthquake disaster from form benefit point of view can bring...
details
download PDF

Implementation of Moving-goal Football Model in Sports and Health Education

Zulkarnaini Zulkarnaini, Rohiat Rohiat, M. Lutfi Firdaus, Frater Netti

The background of this research is the need to create a new learning model in sports and health education that is more effective. This study aims to produce a learning model in the form of goal football games engaged in physical education, sports and health. The method used is development research from...
details
download PDF

Development of University Classroom Climate Inventory

Hadiyanto Hadiyanto, Syahril Syahril, Arwildayanto Arwildayanto, Warni Tune Sumar

Improving the quality of learning in universities can basically be done through a macro-scale approach or with a micro approach through improving the learning situation in the classroom. A macro approach has been largely done by creating national and regional policies. However, micro approaches, such...

details

download PDF

Achievement of Development on Early Childhood Based on National Education Standard

Nina Kurniah, Desi Andreswari, Raden Gamal Tamrin Kusumah

This study aims to describe the level of achievement on child development by early childhood education institutions, based on national education standards. This kind of research has not been done yet by other researchers. The method used is documentation study / literature study using secondary data...

details

download PDF

Development Computer Assistant for Evaluation Guidance and Counselling Program

Wirda Hanim, Djunaedi Djunaedi, Happy Karlina Marjo, Sudharno Dwi Yuwono

Evaluation is difficult to realize by previous researchers by developing guidance and counselling service evaluation software. The aim of the study was to develop an evaluation of web-based results so that it would be easier to use by the counselor of guidance and counselling in the evaluation. This...

details

download PDF

The Effect of Fable on Increasing Students' Understanding of Plane Figure Concept

Lisnani Lisnani
Department of Primary Teacher Education
Universitas Katolik Musi Charitas
Palembang, Indonesia
lisnani@ukmc.ac.id

Abstract—**Fables are stories that tell the lives of animals behaving like humans and having moral message. Fable is a media in learning mathematics about plane figure. The purpose of the study was to improve students' concept understanding and learning motivation in plane figure topic. The types of the research are mixed method. The quantitative research to measure understanding concepts by using test. Qualitative research to measure learning motivation by using questionnaires and to describe learning plane figure using fable. The data were statistically analyzed with SPSS 19, that is, independent sample t-test and Mann Whitney. The subject of this study were 52 fourth graders of elementary school which comprises two classes, participated in this study. Data collection techniques used tests and questionnaires. The study results are as follows: First, students' improved concept understanding indicated from the fact that the experimental class is higher than the control one, and second, students' learning motivation is moderate, which is indicated from a gain score of 0.55. It also discusses the characteristic of plane figure using fable. As the implication, the fables could be used to measure students' interest and reading ability in thematic learning for fourth graders.**

Keywords—joyful learning; thematic; fable

I. INTRODUCTION

The low ability of Indonesian students in reading and mathematics is reported on the 2016 OECD data. According to the OECD, Indonesian ranked 62nd for Science, 63rd for Mathematics, and 64th for Reading out of 70 countries. In addition to these data, the 2012 Program for International Student Assessment (PISA), the ranking for Science and Mathematics is 64th out of 65 while Reading is 61st out of 65 countries. The average scores for PISA 2015 (and 2012) are 403 (382) for Science, 386 (375) for Mathematics and 397 (396) for Reading [1].

There are some hindrances in learning mathematics faced by students in several topics, including counting operations, fractions, and plain figures. Plain figures are part of geometry, which should have been taught as early as possible since they are all around us [2]. Problems in learning mathematics are probably caused by the inadequacy of learning facilities, both in the form of textbooks and learning media. Moreover, available textbooks are less attractive and colourless [2]. Mathematical difficulties must be overcome as early as possible, if not facing many problems at every level of education, because mathematics is always needed, including in everyday life [3].

The students' low concept understanding is also the cause of Indonesia's low ranking in mathematics [1]. This can be viewed from the situation when the student was asked by the teacher to mention an example and the student could not mention the example that was asked. When the teacher asked again about the definition of a concept, the student just kept quiet. So, to find a mathematical concept, students cannot find it alone [4]. Understanding the concept of mathematics is very important for students because it becomes the basis of knowledge, which is the start goal of learning mathematics [5].

To overcome this problem, the researcher designed fables using tangram context. The goal is to create mathematics learning more interesting and fun. By creating an atmosphere and designing a fun mathematical learning model, it is hoped that the teaching and learning process of mathematics becomes more attractive, so that the notion that mathematics is really scary and boring can be eliminated gradually from our thinking. Finally, mathematics learning is likely to become a learning favoured by all individuals.

A joyful learning requires a relaxed atmosphere, free from pressure, safe, attractive, the emergence of interest in learning, full involvement, learners' attention, interesting learning environment, enthusiasm, feeling of joy, high concentration [6]. In addition, the use of fable aims to increase students' imagination. In other words, the children's high imagination motivates these students to produce creative and innovative works [7].

Moreover, a joyful learning is a learning that students could enjoy. Students feel comfortable, safe and fun. Exciting feelings contain affective elements, especially in aspects of learning attitudes and achievement motivation [8]. A joyful learning is a learning strategy, concept and practice which is a synergy of meaningful learning, contextual learning, constructivism theory, and active learning [9,10].

In this research, we define the "joyful learning" as a kind of learning process or experience which could make learners feel pleasure in a learning scenario/process. A joyful perception is found to have positive influence on the motivation of learning [11,12]. Fable using the tangram context aims to create joyful

learning. It was said to be fun because students use funny and interesting fables.

Motivation is defined as strength, encouragement, need, enthusiasm, pressure, or psychological mechanism that encourages a person or group of people to gain certain achievements in accordance with what they desire [13].

One who has great motivation will show interest, attention, full concentration, high perseverance, and achievement-oriented without demonstrating the feelings of boredom, unenthusiastism, and surrender [14]. Students who have high learning motivation will find it easier to follow the learning process because they feel learning is important, whereas students with low motivation do not seem excited so they have difficulty in understanding concepts and learning processes are not conducive [15].

In response to this view, it is highly recommended that teacher incorporates some shape puzzles such as tangram, Lego, and Froebel's blocks in the plane figure as part of geometry teaching and learning activities [16]. The tangram is an ancient Chinese geometric puzzle, which has seven pieces: two large triangles, one medium triangle, two small triangles, one square, and one parallelogram [17].
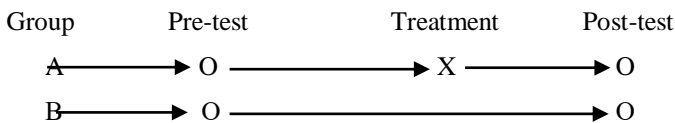
Learning plane figure will be more enjoyable through the use of media in the form of fables. Fable is not just a fun story, but it certainly has the moral lesson inside of the storyline [18]. In design the fable, researcher using tangram context. Tangram is a medium that may be used to facilitate students' geometric abilities. Tangram generates students to be excited and active in learning [19].

Tangram is considered beneficial for children in many ways, which include: 1) developing the sense of interest in geometry; 2) enabling them to distinguish various shapes; 3) developing intuitive feelings for geometric forms and relations; 4) developing the ability of spatial rotation; 5) facilitating the ability to use the right words to manipulate shapes (e.g. 'flipping', 'turning', 'shifting'); 6) studying what 'congruent' means [20].

Many studies have investigated about fables that each fable has, at least, a moral lesson in its narrative [18]. The difference between this study and the previous ones is that the product of fables using tangram to improve students' concept of understanding and learning motivation on the topic of plane figure.

II. METHOD

This study used a mixed method. The quantitative research used t-test, that is, independent sample t-test to measure concept understanding and Mann Whitney (i.e. N-gain score) to measure learning motivation. The research design used is Nonequivalent Groups Pretest-Postest Design [12].

Group	Pre-test	Treatment	Post-test

A ——→ O ——————→ X ——————→ O

B ——→ O ——————————————→ O

Annotation:

A: Experimental Class

B: Control Class

O: Pre-test and post-test on the mathematical concept understanding

X: The treatment of mathematics learning via fables using tangram context

The increase in motivation was analyzed by using the Gain score. The initial and final scores were used to obtain a Gain score:

$$g = \frac{\% \text{ posttest average score} - \% \text{ pretest average score}}{100 - \% \text{ pretest average score}}$$

The qualitative research is to describe learning plane figure through fable by using tangram context. The researcher used fable to create enjoyable learning for the student.

Furthermore, the data collection technique used the test to measure the development of students' concept understanding and some questionnaires to measure the increase in students' learning motivation in relation to the plane figure subject.

This study was conducted in one of Elementary School in Indonesia. The population of this study was all fourth grade students in 2017/2018 academic year. The population in this study were all fourth grade students of the school from the 2018/2019 academic year, as shown in table 1 below.

TABLE I.   RESEARCH POPULATION

No	Class	Male	Female	Total
1	IV.A	15	10	25
2	IV.B	11	12	23
3	IV.C	12	13	25
Total		38	35	73

Table 1 shows the research population that consists of three classes. Then, the researcher chose two classes as sample. The sampling technique was cluster random sampling method, which is the selection of samples in class randomly by using pre-test of students' understanding concept and interview to the teacher.

In the three classes, the pre-test was conducted and then analyzed to acquire two classes, as shown in table 2. Based on the results of the initial data analysis, the study sample is class IV.A as the experimental class and IV.B as the control class.

The sampling technique was cluster random sampling method, which is the selection of samples in class randomly. In the three classes, the pre-test was conducted and then analyzed to acquire two classes, as shown in table 2. Based on the results of the initial data analysis, the study sample is Class IV.A as the experimental class and IV.B as the control class.

TABLE II.   RESEARCH SAMPLE

No	Class	Male	Female	Total	Information
1	IV.A	15	10	25	Experimental class
2	IV.B	11	12	23	Control class
Total		26	22	48	

Table 2 shows two classes in the research. There are experimental and control classes. The experimental class used fable in learning plane figure. Meanwhile, the control class did not use fable in learning plane figure.

III.   RESULTS AND DISCUSSION

The results of this study are the increase in concept understanding, in learning motivation, and in the description of plane figure learning by using fables. The first to be discussed is the increase in concept understanding of plane figure learning via pre- and post-tests.

Based on the results of calculations and statistical tests, it is obtained the average score of pre-test, post-test, and N-gain. It is also discovered, the results of independent sample t-test on the data of students' mathematical concept understanding of the experimental class taught through fables using tangram context and of the control class by employing conventional learning, as in table 3.

TABLE III.   PRE-TEST, POST-TEST, N-GAIN AVERAGE SCORES AND T-TEST RESULTS OF THE DATA OF THE TEST ON MATHEMATICAL CONCEPT UNDERSTANDING IN THE EXPERIMENTAL AND CONTROL CLASSES

Test of mathematical concept understanding	Average Score			Results of data's t-test		Result of Mann-Whitney's test
	Pre-test	*Post-test*	*N-gain*	*Pre-test* *Sig(2-tailed)*	*Post-test* *Sig(2-tailed)*	*N-Gain* *Asymp. Sig. (2-tailed)*
Experi Mental	7.74	15.39	0.63	$0.663 > 0.05 = \alpha$ (H_0 accepted)	$0.000 > 0.05 = \alpha$ (H_0 rejected)	$0.000 < 0.05 = \alpha$ (H_0 rejected)

Table 3 demonstrates the pre-test's average scores of the experimental class and the control class is not much different. The results of the independent sample t-test on the pre-test's data also suggest that the sig value of $0.663 > 0.05 = \alpha$. The sig value is greater than 0.05, therefore H_0 is accepted.

This means, there is no significant difference on the average score of the initial ability to understand mathematical concepts between the students who will obtain explorative learning and the students who will gain direct learning. However, the post-test's results indicate the test's average score of the experimental class is higher than the control class.

Based on the result of independent sample t-test on the post-test's data, it is discovered that the sig value $0.000 < 0.05 = \alpha$. The sig value is smaller than 0.05, therefore H_0 is rejected. In other words, there are differences in understanding mathematical concepts between the students who practise fables using tangram context and the students who obtain conventional learning.

In addition, referring to the aforementioned table, it appears that the N-gain's average score on the students' mathematical concept understanding of the experimental class is higher than the control one. The N-gain's average score of the experimental class is 0.63 while the control class is 0.27. The average N-gain of the students' understanding mathematical concepts in the experimental class is in the medium category and the control class is in the low category.

Mann-Whitney test results of N-gain data indicate the sig value $0.000 < 0.05 = \alpha$. The sig value is smaller than 0.05, therefore H_0 is rejected. This means that the increase in mathematical concept understanding of the students who

practise fables using tangram context and the students who obtain conventional learning. In conclusion, there is the improvement of mathematical concept understandings of both students who practise fables using tangram context and who employ conventional learning.

The second result is the increase in students' learning motivation in Maths learning, particularly plane figure subject. The increase in learning motivation is indicated by comparing the data of filling in questionnaires between before and after practising fables using tangram context on the plane figure's topic. The increased student learning motivation is obtained by finding a Gain Score. The results suggest that students have experienced some increased motivation. The increase in motivation may be viewed on the amount of Gain Score obtained (i.e. 0.55), which is classified as being in the medium category.

To investigate if there is a difference in motivation between before and after implementing fables using tangram context, questionnaire data were employed. Testing was conducted by t-test for the dependent sample. The test results show that the sig value is 0.000, which means that sig <0.05 (α), therefore H_0 is rejected. This means that there is a significant difference in motivation between before and after using fable.

The third result of this research is the description of plane figure learning by using fables that employ tangram context. This is considered as a qualitative research. The description of this plane figure by using fables was initiated when students read a fable as shown in figure 1.
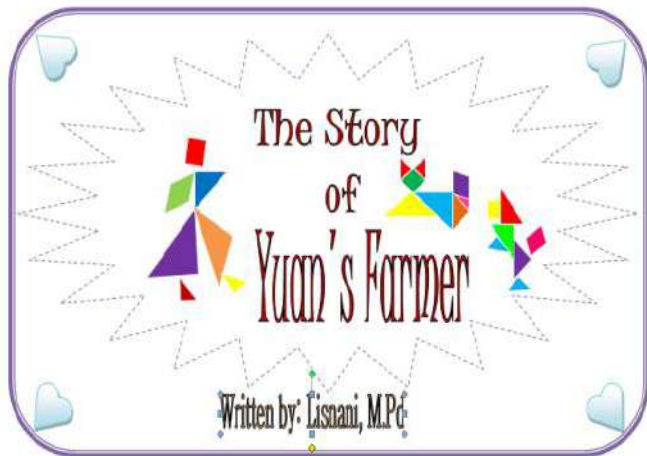
Fig. 1. Cover of fable.

Figure 1 shows the cover of fable using tangram context, designed by the researcher. The fable tells the life of a farmer who lives alone and has two pets, that is, a dog named Doggy and a cat named Cathy. These pets are always fighting each other and the farmer becomes confused. One day, there is an occurrence when the farmer and Cathy are attacked a couple of times by another animal and Doggy attempts to save them.

Next, the students were required to explain various shapes of plane figure alternately, based on the pages of the fable as shown in figure 2.
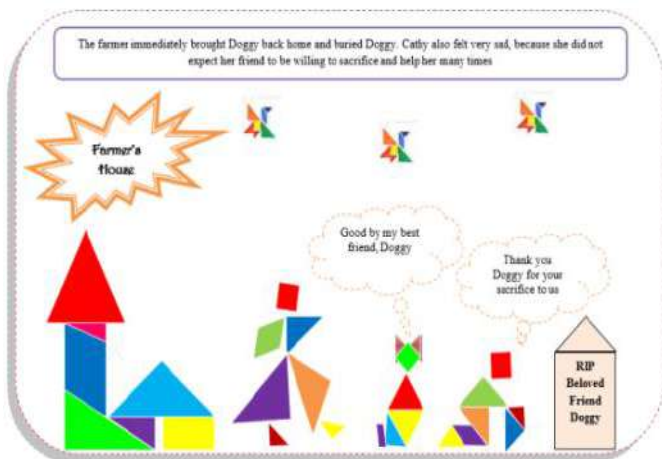

Fig. 2. The fable's content.

After reading the fable, the students were required to describe the moral message that would be achieved. This is because each fable, fable comprises a moral or a message delivered to its readers as demonstrated in figure 3.
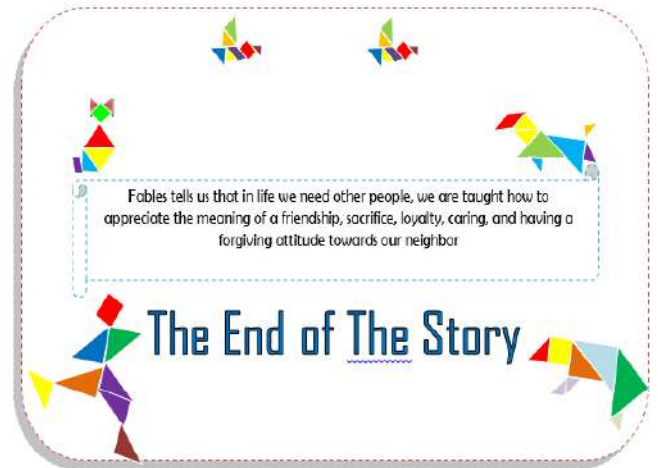

Fig. 3. The moral of the fable.

Figure 3 shows the moral message of the fable is in life we need other people, we were taught how to appreciate the meaning of a friendship, loyalty, caring, and having a forgiving attitude towards our neighbor. Finally, the students did some exercises in order to check their comprehension of plane figure.

IV. CONCLUSION

According to the study results, it is evident that implementing fables using tangram context is likely to develop students' concept understanding and learning motivation. Besides, fables may foster a mathematics learning to become a fun and enjoyable learning.

A fun learning through fables using tangram context is perhaps an alternative solution in learning plane figures when conducive learning environment is created. This fact is demonstrated from the percentage of N-Gain category that the experimental class is higher than the control class. Moreover, the increase in students' concept understanding of the experimental class is higher than the control one.

ACKNOWLEDGMENT

REFERENCES

[1] Wardono and Masjaya, "Pentingnya Kemampuan Literasi Matematika untuk Menumbuhkan Kemampuan Koneksi Matematika dalam Meningkatkan SDM," PRISMA 1, Prosiding Seminar Nasional Matematika, pp. 568–574, 2018.

[2] R.I. Lisnani, and Somakim, "Desain Pembelajaran Bangun Datar Menggunakan Fable "Dog Catches Cat" And Puzzle Tangram Di Kelas II SD", Jurnal Kreano, vol. 4, no. 1, pp. 11–25, 2013.

[3] R. Sundayana, Media dan Alat Peraga dalam Pembelajaran Matematika. Bandung: Alfabeta, 2015.

[4] D.M.L. Handayani, and W.W. Wardani, "Upaya Meningkatkan Pemahaman Konsep Matematika Melalui Model Pembelajaran Problem Solving pada SIswa Kelas VIIID SMP N1 Kasihan" Jurnal Derivat vol. 2., no. 1, pp. 68–75, 2015.

[5] Fatqurhohman, "Pemahaman Konsep Matematika Siswa dalam Menyelesaikan Masalah Bangun Datar, Jurnal Ilmiah Pendidikan Matematika", vol. 4, no. 2, pp 127–133, 2016.

[6] D. Mintasih, "Merancang Pembelajaran Menyenangkan Bagi Generasi Digital", vol. 9, no. 1, pp 39–48, 2016.

[7] I.N. Dantes, A.A.I.N. Marhaeni, and I.A.S. Widhiani, "Penerapan Penggunaan Media Permainan Fantasi dan Imajinasi Kreatif untuk Meningkatkan Kemampuan Otak Kanan dan Mengembangkan Kemampuan Berbahasa" e-Journal Program Pascasarjana Universitas Pendidikan Ganesha, vol. 4, 2014.

[8] Anggoro, "Alternatif Upaya Mengatasi Kebosanan Siswa Melalui Strategi Joyful Learning dalam Pembelajaran IPA", Prosiding Seminar Nasional Pendidikan Dasar SPS UPI, pp 318– 330, 2015.

[9] P. Morgado. "From passive to active learners implementing the pedagogy of "learning by doing" in large sized design foundation class", Transformative Dialogues: Teaching & Learning Journal, vol 4, no.2, pp 1–13, 2010.

[10] M.M. Jadal, "Use of activity based joyful learning approach in teaching environmental science subject at primary level", Indian Streams Research Journal, vol. 2, no.7, pp.1–5, 2012.

[11] L. Chen, T.L. Chen, and H.K.J. Liu, "Perception of Young Adults on Online Games: Implications for Higher Education", The Turkish Online Journal of Educational Technology, vol.9, no.3, pp.76-84, 2010.

[12] E.B. Kirikkaya, S. İşeri, and G. Vurkaya, "A Board Game about Space and Solar System for Primary School Students", The Turkish Online Journal of Educational Technology, vol. 9, no.2, pp.1-13, 2010.

[13] S. Suprihatin, "Upaya Guru dalam Meningkatkan Motivasi Belajar Siswa", Jurnal Promosi, vol. 3, no. 1, pp. 73–82, 2015.

[14] T.A. Arigiyati, "Pengaruh Kedisiplinan, Motivasi Belajar, dan Dukungan Orang tua terhadap Prestasi Belajar Mata Kuliah Metode Statistika Mahasiswa Program Studi Pendidikan Matematika Angkatan 2009", Jurnal Wacana Akademika, vol. 3, no. 9, pp. 922–930, 2011.

[15] I.M. Candiasa, Yasa, I.P. Wina, and I.W. Suastra, "Pengaruh Penggunaan Komik Berorientasi Kearifan Lokal Bali terhadap Motivasi Belajar dan Pemahaman Konsep Fisika", E-Journal Program Pascasarjana Universitas Pendidikan Ganesha, vol. 3, 2013.

[16] J.V. Copley, "Geometry and Spatial Sense in the Early Childhood Curriculum (Reprinted from The Young Child and Mathematics) chapter 6 (CD accompanying Developmentally)", 2000.

[17] G. Bohning and J.K. Althouse, "Using Tangrams to Teach Geometry to Young Children", Early Childhood Education Journal, vol. 24, pp. 239–240, 1997.

[18] M. Abrar, "Learning from Fables: Moral Values in Three Selected English Stories", Dinamika Ilmu, vol.16, no.1 pp.47–59, 2016.

[19] Lisnani, "Desain Materi Bangun Datar Menggunakan Origami Berkonteks Tangram di SD Kelas II", Suska Journal of Mathematics Education, vol. 3, no.1, pp. 33–40, 2017.

[20] E. Nurdin, "Develop The Ability of Geometric Thinking in van Hiele Theory by Using Media Tangram", Proceeding of International Seminar on Teacher Education, pp. 743-748, 2016.