

# ICOTION 2023

International Conference on Education 2023

"Merdeka Curriculum In Perspective Of Multicultural Education"

## Topics:

1. The Merdeka Curriculum:  
A Framework for Multicultural Education
2. Fostering Inclusivity  
through the Merdeka Curriculum
3. Embracing Diversity: Multicultural  
Education in the Merdeka Curriculum
4. Integrating Cultural Awareness  
in the Merdeka Curriculum
5. Empowering Students through Multicultural  
Education in the Merdeka Curriculum
6. Addressing Bias and Stereotypes  
in the Merdeka Curriculum's Multicultural Approach
7. Promoting Social Cohesion:  
The Role of the Merdeka Curriculum  
in Multicultural Settings
8. Developing Intercultural  
Competence with the Merdeka Curriculum
9. Teaching Tolerance and Respect  
in the Merdeka Curriculum's Multicultural Context
10. Enhancing Global Citizenship through  
the Merdeka Curriculum's Multicultural Perspective

## Publication Opportunity

**National Journal:**

**Cakrawala: Jurnal Pendidikan (S3)**

## Speakers



Dr. taufiqullah, M.Hum  
Rector of Universitas  
Pancasakti Tegal

Prof. Dr. Dinn Wahyudin  
Universitas  
Pendidikan Indonesia



Prof. Dr. Sufian Jusoh  
Universiti  
Kebangsaan Malaysia

Address: Jl. Halmahera Km.01 Tegal City Email: [icotion@upstegal.ac.id](mailto:icotion@upstegal.ac.id) Contact: +6282225377403

## Journal Description

**International Conference On Education (ICOTION)**

### Steering Comitte

Event Petron : Suriswo, M.Pd.

Person Responsible : Yuvita, M.Pd.

Design Cover : Vidi Angkasa

Chair Person : Agus Riyanto, M.Pd.

Secretary : Anin Eka Sulistyawati, M.Hum.

Treasurer : Fajar Prihatini, M.Pd.

Event Division : Dr. Yoga Prihatin, M.Pd.

Sumartono, M.Pd.

Erma Widyastuti

IT Division : Vidi Angkasa, .

Reviewer :

Sitti Hartinah, [Google Scholar](#), [Scopus](#), Universitas Pancasakti Tegal

Taufiqullah, [Google Scholar](#), [Scopus](#), Universitas Pancasakti Tegal

Lutfurahman Aftab | [ResearchGate](#) | Mili Institute of Higher Education, Afghanistan

Elchin Gashimov | [ORCID ID](#) | Moscow City University, Samara Rusia

Kanaan Hasan | [Scholar ID](#) ,[Scopus ID](#) , Tirkit University, Iraq

## Current Issue

2023: Proceeding Icotion 2023 (Digital Literacy Pedagogy in Teacher Education)

Proceeding International Confrention On Education (ICOTION)

**Published:** Oct 29, 2023

## Articles

Students' Perceptions Toward Video Project as Media in Improving Their Speaking Skills

1-7

 Dita Dwi Lestani, Noeris Meiristiani, Anin Eka Sulistyawati

 pdf

 Read Statistic: 8

The Correlation Between Students' Vocabulary Mastery and Their Speaking Ability in Describing Picture

8-12


 Eka Widiyana, Sumartono Sumartono, Nur Aflahatun

 pdf

 Read Statistic: 6

The Effect of 'Canva Application' on Students' Writing Ability in Recount Text

13-24

 Elmira Noer Shaumi


 pdf

 Read Statistic: 34

---

The Effect of Using the Snowball Throwing Technique on Improving Students' Speaking Ability

25-30

 Niken W. Tri Ayu, Yuvita Yuvita, Masfuad Edy Santoso

 pdf

 Read Statistic: 2

The Effect of Online Game Mobile Legends on Students' English Vocabulary Mastery

31-37

 Fidhliya Akrima, Masfuad Edy Santoso, Fajar Prihatini

 pdf

 Read Statistic: 18

The Effectiveness of Using Scaffolding Strategies on Students' Reading Comprehension

38-44


 Putri Cindy Puspitasari, Nur Aflahatun, Sanday Jamaludin

 pdf

 Read Statistic: 24

Effect of Using English Songs as Learning Media on the Students' Pronunciation Ability

45-50

 Shepty Isnaeny Fahmiliya, Sumartono Sumartono, Fajar Prihatini

 pdf

 Read Statistic: 12

The Effect of Using Two Stay Two Stray Technique with Hello English Application on Students' Speaking Skill

51-56

 Syifa Melliana, Yulia Nur Ekawati, Anin Eka Sulistyawati

 pdf

---

The Use of Instagram as Language Learning Tool to Develop Students' Writing Skills

57-62



Vini Aqilla Ramadhanty, Yuvita Yuvita, Sanday Jamaludin

Read Statistic: 1

The Analysis of the Strategies Used By Sixth Semester Students of English Education Department in Consecutive Interpreting of English Short Monolog

63-69



Wahyu Kristayuni

Read Statistic: 2

The Effect of Tiktok Video Application Towards Students Speaking Skills

70-74



Yuli Rismawati, Nur Laila Molla, Rofiudin Rofiudin

Read Statistic: 37

The Impact of Insecurity on Self-Adjustment in Adolescents

75-81



Amalia Kharismawati, Hastin Budisiwi, Maufur Maufur

Read Statistic: 45

The Role of IPPNU Organizational Programs and Activities in The Formation of Youth Character in Pesurungan Lor Village, Margadana District, Tegal City

82-87



Sayidati Asiyah, Hastin Budisiwi, Maufur Maufur

Read Statistic: 6

---

The Influence of Group Guidance Services to Increase Understanding of Stunting Prevention Among Mothers in the Tunas Jaya I Posyandu Group, Karanganyar Village, Dukuhturi District, Tegal Regency

88-92



Ayu Nur Rizkiyatul Latifah, Mulyani Mulyani, Suriswo Suriswo

Read Statistic: 7

The Effect of Classical Guidance Services with Role Playing Techniques in Learning Pancasila Student Profiles to Prevent Bullying Behavior

93-98



Ayu Putri Chiisai, Mulyani Mulyani, Suriswo Suriswo

Read Statistic: 16

Responsive Services for Understanding Parenting Style Parents of Madrasah Ibtidaiyah Mafatihul Students Huda Dukuhrantam Brebes

99-107



Ellen Andarti Elsa, Suriswo Suriswo, Sesya Dias Mumpuni

Read Statistic: 1

Rational Emotive Behavior Therapy to Reduce Overthinking When Dealing With the Final Semester Assessment of Class X SMA NU 1 Hasyim Asy'ari Tarub

108-112



Puji Rachmawati

Read Statistic: 0

The Effectiveness of Group Guidance Services with Group Discussion Techniques to Increase Self-Efficacy in Class V Students of Bangsri 02 Elementary School

113-120

Muhamad Faizal Bacharsyah, Muhammad Arif Budiman Sucipto, Suriswo Suriswo



Read Statistic: 17

The Effect Self-Efficacy on Quarter-Life Crisis in Semester VIII Students College

121-126

Dina Sakinah, Sri Adi Nurhayati, M Aris Rofiqi



Read Statistic: 59

Improving Toxic Relationship Awareness Through Psychoeducational Groups in Students of SMK PGRI 2 Taman

127-131

Meilinda Meilinda, Sesya Dias Mumpuni, Renie Tri Herdiani



Read Statistic: 7

The Effect of Cognitive Behavior Therapy in Group Counseling to Reduce Phubbing Behavior in 6th Semester Students of Guidance and Counseling Study Program of Pancasakti University Tegal

132-136

Sely Wahyu Trisnany, Sitti Hartinah, Sri Adi Nurhayati



Read Statistic: 5

Decision Making to Marry Women Who Married Early in the Tunon Village, Tegal City

137-144

Nesa Dwi Gita Safila, Hastin Budisiwi, M Arif Budiman



Read Statistic: 1

Mindfulness Therapy to Reduce Fear of Missing Out (Fomo) in Class X Students in Computer and Network Engineering (TKJ) at SMK NU Hasyim Asy'ari Tarub Tegal Regency

145-150

Vivi Triyani, Sri Adi Nurhayati, Rahmad Agung Nugraha



Read Statistic: 7

Product Marketing, Product Quality and Price Influence on the Buying Interest of Miemie Brownie Consumers

151-158

Harun Supriyadi, Beni Habibi, Basukiyatno Basukiyatno



Read Statistic: 3

The Effect of Fluctuations in the Number of Anggora and Remaining Business Results (SHU) on the Welfare of Members at the KPRI Cooperative Employee Educator (Kowandik) Tarub District, Tegal Regency

159-166

Hilyatul Muthiah, Dewi Apriani, Tomi Azami



Read Statistic: 3

Use Smartphone and its influence of Learning Motivation on Economics Learning Outcomes at Sma Negeri 1 Kramat

167-171

Devi Nurul Yuniarti, Beni Habibi, Basukiyatno Basukiyatno



Read Statistic: 0

The Influence of Shopping Price Discounts online on Consumptive Behavior (Case Study of Application Users shopee students of the Faculty of Teaching and Educational Sciences at Pancasakti University of Tegal)

172-176

Mizdawati Mizdawati, Basukiyatno Basukiyatno, Dewi Apriani



Read Statistic: 22

Student Motivation, Creative Products & Entrepreneurship (PKK) Subjects and Its Influence on Interest in Entrepreneurship

177-181

Shilfina Fitriana, Beni Habibi, Neni Hendaryati



Read Statistic: 6

Giving Rewards In Increasing Learning Motivation in Economics Subjects of Class XI Public High School 1 Kramat

182-186

Yulis Yuliani, Basukiyatno Basukiyatno, Neni Hendaryati



Read Statistic: 9

Development of Mosadig Science Practicum Module to Support Scientific Communication Skills

187-196

Liya Safitri, Muriani Nur Hayati, Fahmi Fatkhomi



Read Statistic: 1

Creating A Fun Science Book to Know Student Motivation in The Science Subject of the Solar System Material.

197-205

Septian Imam Wahyudi, Bayu Widiyanto, Muriani Nur Hayati



Read Statistic: 9

Utilization of Science Laboratories in Junior High Schools in Bulakamba District Brebes Regency

206-212

Ahmad Zaenudin, Bayu Widiyanto, Yuni Arfiani



Read Statistic: 0

The Effectiveness of Monopoly Learning Media Based on Scientific Literacy With Vision SETS on Student Learning Outcomes

213-217

Muhammad Misbakhul Anam, Yuni Arfiani, Fahmi Fatkhomi



Read Statistic: 2

Completeness of Discovery Learning Learning Model on Students' Mathematical Literacy

218-222

Izzaura Aden Abidin, Shaefur Rokhman, Paridjo Paridjo



Read Statistic: 1

Analysis of Self Efficacy and Contextual Mathematical Problem Solving Abilities of Students Through A Model Problem Based Learning With Talking Stick

223-228

Aulia Syafira, Isnani Isnani, Munadi Munadi



Read Statistic: 4

Improving the Ability of the Mathematization Process through the Development of LKPD with A Realistic Approach to Statistical Material

229-236

Anggita Putri Yuliantiaji, Dian Nataria Oktaviani, Munadi Munadi



Read Statistic: 5

SDL Effectiveness with Student Centered Approach to Self Efficacy and Mathematical Reasoning

237-242

Fatimah Tuzahro, Isnani Isnani, Ponoharjo Ponoharjo



Read Statistic: 2

Analysis of Students' Mathematical Literacy Ability in Solving Story Problems

243-247

Lulu Sabrina, Munadi Munadi, Isnani Isnani



Read Statistic: 4

The Length of Playing the Game Fish Math on Elementary School Numeracy Skills

248-253

Sindy Yuanita, Ahmadi Ahmadi, M. Shaefur Rokhman



Read Statistic: 7

Analysis of Students' Mathematical Literacy Ability in View of Gender Differences

254-261

Sinta Nuriyah, Munadi Munadi, Eleonora Eleonora



Read Statistic: 4

The Effect of Guided Discovery Learning Model with the Assistance of Peer Tutors on the Self Efficacy of Class X Students

262-265

Fajri Alam Syah, Isnani Isnani, Paridjo Paridjo



Read Statistic: 2

Analysis of Students' Mathematical Communication Ability in Solving Story Problems in View of Learning Styles

 266-271


 Kharismatul Husna, Muhammad Paridjo, Eleonora Dwi Wahyuningsih




 Read Statistic: 11

The Ability of Grade VIII Students' Mathematical Literacy in Term of Gender

 272-278

 Sekar Dewi Oktiana, M. Shaefur Rokhman, Ahmadi Ahmadi



 Read Statistic: 2

The Use of the Jigsaw Assisted Learning Model to Understanding Mathematical Concepts

 279-284


 Umi Nurjana, Eleonora Dwi Wahyuni, Ponoarjo Ponoarjo



 Read Statistic: 1

Effectiveness of Powtoon Video-Based Learning Media to Improve Students' Mathematical Understanding Ability

 285-289

 Camelia Prisnianti, Ibnu Sina, Isnani Isnani



 Read Statistic: 14

The Effectiveness of Implementing the Process Oriented Guided Inquiry Learning (POGIL) Learning Model to Learning Outcomes in Mathematics

 290 - 296

 Nurul Wideasih, Munadi Munadi, Eleonora Dwi Wahyuningsih



 Read Statistic: 9

Application of the Reciprocal Teaching Approach to Examine Mathematical Communication Skills in Statistical Material in Terms of Student Mathematical Abilities

 297 - 302

 Dewi Ayu Fitriyana, Paridjo Paridjo, Munadi Munadi




 Read Statistic: 0

Mathematical Literacy Ability of Students in Discovery Learning Viewed from the Existence of Learning Media

 303-309

 Muhammad Ghozali, Munadi Munadi, Paridjo Paridjo



 Read Statistic: 2

Numeration Literacy of 5th Grade Students of SD Negeri Gandasuli 02 Brebes

 310 - 314

 Ambarwati Nur Syamsiyah, M. Shaefur Rokhman, Munadi Munadi



 Read Statistic: 11



Optimization of Numeracy Learning in Elementary Schools through Innovation in the Development of Construct 2-Based Game "Fish Math"

315-321

Nur Isma Sabilla, Ahmadi Ahmadi, M. Shaefur Rokhman



Read Statistic: 17

Improving Students' Mathematical Reasoning Ability through LKPD (Student Work Sheets) in Flat Sided Spaces Materials

322-328

Dicky Wachyudi, Dian Nataria Oktaviani, Ahmadi Ahmadi



Read Statistic: 4

The Effect of Differentiated Learning Models Assisted with Images to Improve Students' Understanding of Mathematics

329-333

Rio Budy Kusuma, Eleonora Dwi Wahyuni, Isnani Isnani



Read Statistic: 4

The Effectiveness of Application of Numbered Head Together on Students' Mathematical Learning Motivation in View of Gender

334-339

Salma Aulia Rahma, PonoHarjo PonoHarjo, Eleonora Dwi Wahyuningsih



Read Statistic: 2

The Influence of Problem Based Learning Assisted Monster Math Game in Solving Calculating Problems

340 - 344

Sherina Anggita Putri, Ahmadi Ahmadi, Dian Nataria Oktaviani



Read Statistic: 2

Student's Mathematical Problem Solving Ability in the High Category Assisted with Animation Video Media

345 - 348

Siska Hesti, Ibnu Sina, Eleonora Dwi Wahyuningsih



Read Statistic: 4

The Effect of Learning Barriers on Math Study Achievement

349 - 353

David Qolby Ikhsanul Akbar, Isnani Isnani, Paridjo Paridjo



Read Statistic: 7

The Implementation of Student Teams Achievement Division Learning Model Assisted By Question Cards and Students' Mathematical Literacy Skills

354 - 358

Lu'lu Finisa, M. Shaefur Rokhman, Ibnu Sina



Read Statistic: 1

Efforts to Improve the Ability to Understand Mathematical Concepts of Grade VIII Junior High School Students through the Development of LKPD Based on a Contextual Approach to Opportunity Material

359 - 367

Windy Ayu Anjani, Dian Nataria Oktaviani, Ahmadi Ahmadi



Read Statistic: 1

Implementation of the Project to Strengthen the Profile of Pancasila Students as an Effort to Grow the Entrepreneurial Soul in Vocational School Negeri 2 Adiwerna

368 - 371

Erlen Intan Anindya, Wahyuono Wahyuono, Tity Kusrina



Read Statistic: 5

Rural Community Awareness of Higher Education for Women in Pemalang District

372 - 377

Devika Ayuning Tias, R Samidi, Wahyu Jati Kusuma



Read Statistic: 0

Evaluation of Teacher Competencies in the Era of Independent Curriculum in the Subject of Pancasila and Citizenship in Class 10 SMA Negeri 3 Slawi

378 - 383

Ismi Latifah, Wahyu Jati Kusuma, Subiyanto Subiyanto



Read Statistic: 6

Improving the Quality of Children's Character Education through the Role of Parents in the Family in the Randugunting Village Environment Tegal City

384 - 388

Anggraeni Nur Oktaviani, Fitriyanto Fitriyanto, Subiyanto Subiyanto



Read Statistic: 0

Implementation of Mutual Cooperation Value in Kuta Village, Belik Sub-District, Pemalang District

389 - 393

Nurbaeti Nurbaeti, R. Samidi R. Samidi, Munthoha Nasuha



Read Statistic: 0

Establishing Student Leadership Character through Intra-School Student Organization (OSIS) at YPT Vocational School, Tegal City

394 - 397

Frischa Indah N.O, Munthoha Nasuha, Wahyuono Wahyuono



Read Statistic: 2

Village Government's Strategy in Developing the Potential of the Village for Religious Tourism the Tomb of Syekh Maulana Mimbar in Padakaton Village Ketangungan District Brebes District

398 - 402

Lina Nuril Istiqomah, Fitriyanto Fitriyanto, Munthoha Nasuha



Read Statistic: 1

# STUDENT'S MATHEMATICAL PROBLEM SOLVING ABILITY IN THE HIGH CATEGORY ASSISTED WITH ANIMATION VIDEO MEDIA

Siska Hesti<sup>1\*</sup>, Ibnu Sina<sup>2</sup>, Eleonora Dwi Wahyuningsih<sup>3</sup>

<sup>1</sup>Universitas Pancasakti Tegal (Indonesia)

<sup>2</sup>Universitas Pancasakti Tegal (Indonesia)

<sup>3</sup>Universitas Pancasakti Tegal (Indonesia)

\*Corresponding author: siska.hesti1702@gmail.com

## Abstract

This study aims to describe the ability of students to solve mathematical problems in the high category with the help of animated video media. This type of research is a qualitative descriptive research. The learning media used is Canva-based animated video media. The research subjects were class VII F students of SMP Negeri 3 Brebes Semester II for the 2022/2023 academic year. Taking the subject using random sampling from the test scores of written descriptions of mathematical problem solving ability. Data collection techniques in this study used tests, interviews, and documentation. According to Polya, the indicators of mathematical problem-solving ability are (1) understanding the problem (2) devising a plan (3) carrying out the plan, and (4) looking back. Based on the results of the study, it shown that: high mathematical problem-solving ability fulfills 4 indicators of mathematical problem-solving ability, there are (1) understanding the problem (2) devising a plan (3) carrying out the plan, and (4) looking back.

Keywords: problem solving, mathematics, video animation

## 1 INTRODUCTION

According to Fargil (2016: 258) in mathematics is one of the universal sciences that underlies the development of today's modern world (Fauziyah, et al, 2021: 155). The application of mathematics requires mathematical ability, one of the mathematical abilities is the ability to solve mathematical problems. If students have knowledge and skills in mathematical problem solving abilities, students will be more analytical in applying mathematics in everyday life.

According to Cooney, problem-solving abilities are very important, especially for students who are studying mathematics because they can help and improve mathematical abilities including analytical and critical thinking (Kurniawan, et al., 2019: 272). Polya (1973) states that there are four stages when using problem solving abilities, there are (1) understanding the problem, (2) devising a plan, (3) carrying out the plan, and (4) ) looking back (Christina and Adirakasiwi, 2021:406). The mathematical problem-solving abilities of high-ability students tend to be able to use the conditions for each indicator of problem-solving ability correctly to solve all types of questions (Fatmawati and Murtafiah, 2018: 72).

Teachers as important role holders in the learning process should use methods and media in the learning process that can make students easily understand the material presented. To support the achievement of learning objectives, teachers can at least use tools or media in the learning process, especially in learning mathematics. In fact there are many media that can be used to assist the learning process, such as platforms/digital media that are easily accessible for all people, especially among students by utilizing the internet network, as well as information and communication technology (ICT). One of the learning media that can be used to assist the learning process is learning video media. Learning video is a medium that presents audio-visual content containing learning material that contains concepts, principles, procedures, theories and examples of knowledge in the hope that the audience from the video can understand the contents of the learning material. One of the instructional video media is animated video media. Animated video is a combination of moving audio-visual media. Visual video media relies on the senses of hearing and sight (Hapsari and Zulherman, 2021: 2385).

There are students who have problems solving math problems because in students' minds mathematics is a difficult subject. Where there is still confusion and difficulty from students in solving math problems. Students can solve the problem if the problem is not much different from the example problem or the type of question that only inserts numbers into the formula. Students experience

difficulties when faced with questions about the application of mathematics in everyday life, where students are not accustomed to writing down what is known in the questions, what is being asked, and drawing conclusions from questions regarding the application of mathematics given. This indicates the low ability of students' mathematical problem solving. The learning media used during class learning is still limited, such as teaching aids and there is no learning media in the form of learning video media.

The limitations of the problems studied are: (1) student's mathematical problem solving abilities based on the Polya stages, namely understanding the problem, preparing a solution plan, carrying out the settlement plan, and checking again, (2) the learning media used is Canva-based animated video media.

Based on the explanation, the purpose of this study is to explain the mathematical problem solving abilities of students in the high category assisted by animated video media.

## 1.1 Canva

Canva is an online graphic design application. The use of the Canva application in making learning animation videos that will be presented later will be more interesting so that it retains students' attention in participating in the learning process and better understands the material being taught.

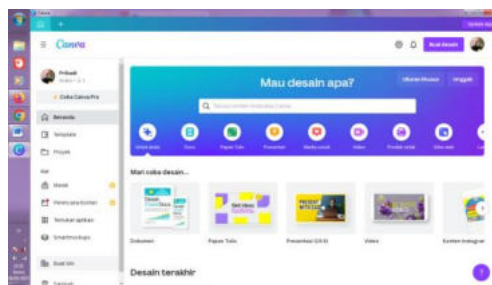


Figure 1. Screen Display of Canva

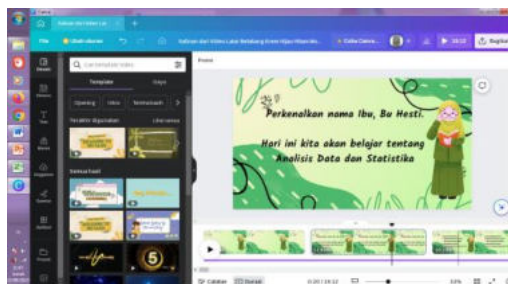


Figure 2. Display of Video Animasi Media

## 2 METHODOLOGY

The research was conducted to class VII F semester II of SMP Negeri 3 Brebes for the 2022/2023 academic year. In this research using descriptive qualitative research which aims to describe how the mathematical problem solving skills of students in the high category of class VII SMP Negeri 3 Brebes for the 2022/2023 academic year are assisted by animated video media on data analysis and statistics material based on Polya stages. Determination of the subject of this study by using random sampling. The subjects of this study consisted of 2 subjects with high mathematical problem solving abilities.

The form of the data in this study was a list of names of class VII F students at SMP Negeri 3 Brebes, test questions and student answer sheets related to mathematical problem solving ability tests, interview results, and documentation as well as several additional research supporting documents. While the collection techniques in this study include tests, interviews, and documentation. In this study, the presentation of the results of data analysis was in the form of descriptive analysis. Bogdan and Taylor (1975:5) define qualitative research as a research procedure that produces descriptive data in the form of written or spoken words from people and observable behavior (Moleong, 2015:4).

In this study, the presentation of the results of data analysis contained explanations related to the high category students' mathematical problem-solving abilities.

### 3 RESULTS

This study conducted to analyze the mathematical problem solving abilities of the high category students in class VII F semester II of SMP Negeri 3 Brebes for the academic year 2022/2023 on the material Data Analysis and Statistics assisted with video animation media. The results of the mathematical problem solving ability test will then be analyzed based on Polya's problem solving ability indicators which include understanding the problem ( $M_1$ ), devising a plan ( $M_2$ ), carrying out the plan ( $M_3$ ), and looking back ( $M_4$ ). The following is the achievement of the research subject's ability to solve mathematical problems:

**Table 1. Study Subject**

No.	Subject	Category	Subjek Code
1.	Inisial QDA	High	S-1
2.	Inisial SSA	High	S-4

**Table 2. Achivements**

Subject	Achivements																			
	No. 1				No. 2				No. 3				No. 4				No. 5			
	$M_1$	$M_2$	$M_3$	$M_4$	$M_1$	$M_2$	$M_3$	$M_4$	$M_1$	$M_2$	$M_3$	$M_4$	$M_1$	$M_2$	$M_3$	$M_4$	$M_1$	$M_2$	$M_3$	$M_4$
S-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S-4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	x	✓	✓	✓	x	✓	✓	✓	✓

**Table 3. Result Achivements**

No.	Subject	Indicator			
		$M_1$	$M_2$	$M_3$	$M_4$
1.	S-1	✓	✓	✓	✓
2.	S-4	✓	✓	✓	✓

Based on the results of the analysis above, for students in the category of high mathematical problem solving ability it can be concluded that the S-1 subject fulfills all Polya's mathematical problem solving indicators there are understanding the problem ( $M_1$ ), devising a plan ( $M_2$ ), carrying out the plan ( $M_3$ ), and looking back ( $M_4$ ). Likewise, the S-4 subject fulfills all of Polya's mathematical problem solving indicators there are understanding the problem ( $M_1$ ), devising a plan ( $M_2$ ), carrying out the plan ( $M_3$ ), and looking back ( $M_4$ ).

## 4 CONCLUSIONS

### 4.1 Conclusions

Based on the results of the research, the results of the analysis of the mathematical problem solving abilities of students in the high category are assisted by video animation media as follows: students with high mathematical problem solving abilities fulfill 4 indicators of Polya's mathematical problem solving, there are understanding the problem ( $M_1$ ), devising a plan( $M_2$ ), carrying out the plan ( $M_3$ ), and looking back( $M_4$ ).

### 4.2 Advices

This research is expected to help and become a reference for conducting research on students' mathematical problem solving abilities assisted by animated video media. The use of animated video learning media can be used as a reference for conducting relevant research on learning media.

## GRATITUDES

I would say thanks to all the people that help me on this process, especially my family, Mr. Ibnu Sina and Mrs. Eleonora Dwi Wahyuningsih as my professors, and for all my friends.

## REFERENCES

- [1] Christina, E.N., Adirakasiwi, A.G., 2021. *Analisis Kemampuan Pemecahan Masalah Tahapan Polya Dalam Menyelesaikan Persamaan dan Pertidaksamaan Linear Satu Variabel*. Jurnal Pembelajaran Matematika Inovatif (JPMI) Volume 4 No. 2. 405-424. <https://doi.org/10.22460/jpmi.v4i2>.
- [2] Fatmawati, F., Murtafiah, M., 2018. Deskripsi Kemampuan Pemecahan Masalah Peserta Didik Kelas XI Sma Negeri 1 Majene. *saintifik* 4, 63–73. <https://doi.org/10.31605/saintifik.v4i1.145>
- [3] Fauziyah, N., Wahyuningsih, E. D., Sina, I. 2021. *Pengaruh Pemberian Kuis pada Pembelajaran dengan Menggunakan Media Audio Visual terhadap Prestasi Belajar Matematika*. JIPMat Volume 6 No. 2. <https://doi.org/10.26877/jipmat.v6i2.9307>
- [4] Hapsari, G. P. P., Zulherman. 2021. Pengembangan Media Video Animasi Berbasis Aplikasi Canva untuk Meningkatkan Motivasi dan Prestasi Belajar Siswa. *Jurnal Basicedu* Volume 5 No. 4. 2384-2394. <https://doi.org/10.31004/basicedu.v5i4.1237>
- [5] Kurniawan, A., Setiawan, D., Hidayat, W., 2019. *Analisis Kemampuan Pemecahan Masalah Matematis Siswa SMP Berbantuan Soal Kontekstual pada Materi Bangun Ruang Sisi Datar*. JPMI Volume 2 No. 5. 271-282. <https://doi.org/10.22460/jpmi.v2i5.p271-282>
- [6] Moleong, L.J. 2015. *Metodologi Penelitian Kualitatif*. Bandung: PT. Remaja Rosdakarya