

# SEKOLAH TINGGI KEGURUAN DAN ILMU PENDIDIKAN STKRP PCRI JOMBANG 

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Menerangkan bahwa artikel ilmiah dengan judul:

## Using Valsiner's Zone Theory to Identify The Forms of Students' Pseudo Responses In Mathematics Teaching Process

Karya: 1. Jauhara Dian Nurul Iffah<br>2. Akbar Sutawidjaja<br>3. Cholis Sa'dijah<br>4. Subanji

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| Results | Query | Domains (original links) |
| :---: | :---: | :---: |
| Unique | 2 Mathematics Education Study Program, Universitas Negeri Malang, indonesia | - |
| Unique | Teachers' actions during class could lead to different responses from students | - |
| Unique | However, those actions are not always well accepted by students |  |
| Unique | Data were collected by interviewing teachers and students | - |
| Unique | The teaching process was observed through video recording | - |
| Unique | The result showed that P-PA was dominant on the student with low math skill | - |
| 1 results | Key words: Valsiner's zone theory, mathematics teaching, pseudo promote action (P-PA) | files.eric.ed.gov |
| Unique | This occurs in cognitive, affective, and psychomotor aspects | - |
| Unique | Students interact with their surroundings in order to acquire new information and experience | - |
| Unique | Hence, through teaching and learning process, students would change for the better | - |
| Unique | Suherman (2003) proposed two kinds of learning: learning to accept and learning to find | - |
| Unique | In learning to Corresponding author | - |
| 1 results | Thus, they would only memorize the given concept | files.eric.ed.gov |
| 1 results | Students would not only memorize, but also have meaningful learning | files.eric.ed.gov |Students construct mathematical knowledge and the discourse of norms in relation to daily practices

Whatever students learn mostly depends on their teachers' experience in teaching

## Deeply understand the field they teach

These are not always well accepted by students

Teachers implement some procedures during teaching process
However, they are not always categorized into ZPA

Additionally, there is another condition, referred to as pseudo response (pseudo promote action/P-PA)
Some studies on teachers' ZPA had been conducted
Teacher's promote action described earlier would result in students' various responses

Such responses could not be separated from teacher's promotion action

It could be shown in three forms as follows:

METHODOLOGY This study is a descriptive qualitative research

Next, the author took the teacher P-PA as the focus of an in-depth examination
This plan includes teaching materials, methods and teaching scenario that were implemented

Besides categorizing, the researcher analyzed under which condition the students might show such responses RESULTS AND DISCUSSION The teacher taught the first grade student to identify plane elements

The only plane identified classically was rectangle

Whereas, the other planes were provided, identified, and ultimately presented in groups

Subsequently, the teacher presented the material that was discussed for the day
She asked the students to mention the features of rectangle

It was further investigated that each angle was $90^{\circ} \mathrm{C}$

Furthermore, the teacher asked the students to identify the symmetry fold of the paper
amiemt-journal.com ashm-journal.com prezi.com

| Unique | There were two folded symmetries |
| :---: | :---: |
| Unique | It was rotated up to $180^{\circ} \mathrm{C}$ and $360^{\circ} \mathrm{C}$ |
| Unique | The teacher went on to the formulation of circumference and area of the rectangle |
| Unique | However, the subject directly provided some problems for the formulation of the rectangle area |
| Unique | The subject asked them to note the material given as well |
| Unique | The teaching process conducted is shown in Figure |
| Unique | During observation, the author signed that the promote Iffah et al |
| Unique | 747 action on the indicator was not always conducted by the subject |
| Unique | The category might be in the form of acceptance, rejection, or pseudo |
| Unique | The researcher merely focused on the students' pseudo promote action (P-PA) |
| Unique | It seemed that P-PA was apparently on number 1, 2, 5, and |
| Unique | This was categorized into P-PA for the student with low math skill |
| Unique | First, you need to find the definition of this plane |
| Unique | Then, you need to identify its features |
| Unique | Third, we seek to find the circumference and the area of this plane |
| Unique | For instance, I name this plane as ABCD |
| Unique | L: (keep silent) (Pictures 1 and 2) |
| Unique | Post-teaching interview with the students A: This is long-square, isn't it |
| Unique | L: Because both its top and bottom sides are all long |
| Unique | $\underline{L}$ : Both the right and left sides as well |
| Unique | A: Do you mean the length is equal or else |
| Unique | It also showed that L gave pseudo response toward the subject's/teacher's promote action |
| Unique | Structure of the teaching process |
| Unique | The subject's PA1 was apparent |


| Unique | asking the students to explore their knowledge through Picture |
| :---: | :---: |
| Unique | the teacher's given prerequisite questions/previous Picture |
| Unique | The subject's PA2 was apparent |
| Unique | Teaching recording S: And for today, we have come into long square |
| Unique | So, today we are going to discuss long-square |
| Unique | Ok, what can you see on long-square |
| Unique | I am sure you know the shape of long-square |
| Unique | L: (the student kept silent) (Pictures 3 and 4) |
| Unique | Post-teaching interview with student A: Where are the angles of long-square |
| Unique | The subject's PA5 was apparent |
| Unique | L : These are the angles A : So , these all are the angles |
| Unique | whereas, in the interview, $L$ was able to show some features of identified rectangle |
| Unique | This showed the L gave pseudo response to the subject's promote action |
| Unique | Thus, the subject's PA was categorized into P-PA |
| Unique | however, it got pseudo response from the student with low math skill |
| Unique | Teaching process recording A: Note this first |
| Unique | (the students wrote)(Pictures 5 and 6) |
| Unique | Post-teaching interview with the student A: The teacher had written this material yesterday, right |
| Unique | L: Yes, I did A: did you write all |
| Unique | A: Why did not you complete your writing |
| Unique | I wanted to complete the task but the time was up |
| Unique | The subject asked the students to note the concept presented on the board |
| Unique | The subject's PA6 was apparent |
| Unique | did not complete it because her time was up |

L noted on her book but it was not completed

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Unique However, she could answer, although not completely, the question during the interview
She did the instruction but not completely

This PA got pseudo response from the students with moderate and low math skills
M: (kept silent) $\mathrm{S}: \square \mathrm{A}=\square \mathrm{B}=\square \mathrm{C}=\square$
I will take this, a long-square

Here, how large is the angle of long-square
Post-teaching process interview A: Ok, what about the angle
M : It is at the corner A : How many are the angles

M: it is 4 A : $0 k$, how big is it
$\mathrm{M}: 90^{\circ} \mathrm{C}$ A: How could you know that it is 90
The subject's PA6 was apparent

Post-teaching interview A:Do you know what the fold symmetry is
L: It is folded A: How does make it folded

L: These, and these are same in length

A: Are these the same in length
L: Yes A: So, where is another one
The results of the recording and the interview showed Iffah et a
and when the student just partly did the subject's instruction due to limited time
The result of the analysis earlier mentioned is presented in Figure

In addition, she was more dominant in accepting the subject's PA
This was related to her low skill, her level of courage and motivation

The result showed that not all PAs were apparently on the subject's action

It indicated that the subject's ZPA referring to some or aggregate PA emerged

| Unique | P-PA was not apparent to all the students either |
| :---: | :---: |
| Unique | It was only apparent to the students with low and moderate math skills |
| Unique | This was more dominant on the student with low math skill |
| Unique | The teaching process conducted here had both advantages and limitations |
| Unique | CONFLICT OF INTERESTS The authors have not declared any conflict of interests. 752 Educ |
| Unique | The structure of the subject's P-PA |
| Unique | REFERENCES Blanton M, Westbrook S, Carter G (2005) |
| Unique | $\underline{\text { Using valsiner's zone theory to interpret Teaching practices in mathematics and science Classrooms }}$ |
| Unique | A sociocultural analysis of learning to teach |
| Unique | Goos Merrilyn, Dole Shelley, Makar Katie (2007) |
| 24 results | Designing Professional Development to Support Teachers' Learning in Complex Environments |
| Unique | Teacher professional identities and the integration of technology into secondary school mathematics |
| Unique | In: Australian Association for Research in Education conference proceedings 2008 |
| Unique | AARE 2008 International Education Research Conference, Brisbane, Old, (1-15) |
| 1 results | 30- November-4 December 2008 |
| Unique | Sociocultural Perspectives on Research With Mathematics teachers: A Zone Theory Approach |
| Unique | Exploring numeracy teacher identity: an adaptation of valsiner's zone theory |
| Unique | In: Joint AARE 2013 Conference Proceedings |
| Unique | Hussein MA, Monaghan J, Threlfall J (2011) |
| Unique | Extending Valsiner's Zone Theory to Theorise Student-Teacher Development |
| Unique | ) Proceedings of the British Society for Research into Learning Mathe |
| Unique | Iffah JDN, Sutawidjaja A, Sa’dijah C, Subanji (2016) |

files.eric.ed.gov researchgate.net citeseerx.ist.psu.edu connection.ebscohost.com scholar.google.com link.springer.com journals.sagepub.com emeraldinsight.com deepdyve.com academia.edu
ntu.edu.sg

| Unique | Teacher's Rejected Promote Action (R-PA) for Mathematics Teaching Practice in Class, IOSR | - |
| :---: | :---: | :---: |
| Unique | Factors that Influence the Understanding of Good Mathematics Teaching | - |
| Unique | Nadeem M, Rana MS, Lone AH, Maqbool S, Naz K, Ali A (2011) | - |
| 130,000 results | National Council of Teachers of Mathematics (2000) | sciepub.com citeseerx.ist.psu.edu connectedmath.msu.edu sciepub.com jwilson.coe.uga.edu worldcat.org nctm.org lamath.org ascd.org gram.edu |
| 21 results | Principles and standards for school mathematics | nctm.org en.wikipedia.org amazon.com amazon.com math.arizona.edu en.wikipedia.org ascd.org jstor.org emints.org nctm.org |
| 2 results | Pendekatan Kontekstual dalam Pembelajaran Matematika | judulskripsita.com judulskripsita.com |
| Unique | Bandung: Disdik Provinsi Jawa Barat [Contextual Approach in Mathematics Learning | - |
| Unique | Bandung: West Java Provincial Education Office] Undang-Undang RI No | - |
| Unique | 20 Tahun 2003 tentang Sistem pendidikan Nasional [Law No | - |
| Unique | $\underline{20}$ Year 2003 on National Education System] | - |
| Unique | Culture and the development of children's action: A theory for human development (2nd ed | - |
| Unique | Matematika sekolah dasar dan menengah | - |
| 23 results | Elementary and middle school math | hmhco.com aaamath.com amazon.com <br> districalc.com amazon.com dreambox.com us.mathletics.com mathnasium.com lbartman.com teacher-support-force.com |
| Unique | Psychology teaching, Yogyakarta: Media Abadi] | - |
| 1 results | Sociomathematical norms, argumentation, and autonomy in mathematics | scielo.org.ve |
| Unique | 744-753, 10 August, 2017 DOI: 10.5897/ERR2016.3098 Article Number: CD3BEE965393 ISSN 1990-3839 Copyright © 2017 |  |
| 1 results | , Akbar Sutawidjaja 2, Cholis Sa'dijah 2 and Subanji 21 Mathematics Education Study | files.eric.ed.gov |
| Unique | Accepted 3 March, 2017 Various methods of teaching had been implemented to create an | - |
| 2 results | Valsiner suggested a theory on a set of teachers' actions for promoting students' response | files.eric.ed.gov eric.ed.gov |
| Unique | The characteristics of the teacher's ZPA were not imbedded, indicating that the students could |  |

This study aims to identify the forms of promote action which had pseudo responses
The subject of this study was a novice teacher and three students with high

This was apparent when she was silent, behaving as if she did not pay

She partly followed the teacher's instruction, and got answers from her classmates to complete
INTRODUCTION Learning is a process of acquiring insights and experience to change people's behavior

Learning is a complex activity which results in students having skill, knowledge, attitude, and

These capabilities are derived from the stimulus provided by the environment and a cognitive

Creative Commons Attribution License 4.0 International License accept, students would only learn by accepting all

However, in learning to find, they would seek to find the concept learned with

Therefore, it is expected that they could have better understanding and apply the concept
Mathematics is necessary for students because it provides them with logical, analytical, systematical, critical,
to make them truly understand the given process from the origin of the concept up
This should make teachers realize their role as motivator and preceptor for students in

Teachers should implement teaching methods which will make students active to achieve teaching and

Mathematics teaching is a process of interaction between teachers and students in a learning grow and develop optimally and for students to be able to do learning activities effectively n teaching mathematics, students are made to understand the nature of a number of Tools are provided for students to understand or explain an information (for example, equation in mathematical thinking and reasoning to solve new problems and learn new things which students Some studies showed that whatever teachers teach in class influences students' learning both the Yackel and Cobb (1996) conducted a research, and found that daily practices and routines Understand how students learn mathematics, including finding out how their mathematical skill grow individually, Select tasks and strategies which can improve the quality of their teaching process (NCTM,

745 Various teaching methods had been implemented to create an active and fun teaching

| 2 results | Goos and Bennison (2012) suggested that a teaching process needs to be interactive between | researchgate.net files.eric.ed.gov |
| :---: | :---: | :---: |
| Unique | are influenced by several factors, including teachers' educational background, teaching experience, educational qualification, and class | - |
| 1 results | physical environment and other people: Zone of Free Movement (ZFM), representing the environmental constraint which | files.eric.ed.gov |
| Unique | and Zone of Promoted Action (ZPA), a set of activities promoted by adults to | - |
| Unique | Valsiner (1997) claimed that ZPA is a set of activities, things and area in | - |
| Unique | On the other hands, Blanton (2005) argued that this concept of ZPA refers to | - |
| Unique | actions (promote actionPA) provided for students Goos (2005) defined ZPA as a set of | - |
| Unique | Some teaching methods included in ZPA are referred to activities which make students act | - |
| Unique | This ZPA was not imbedded, which could either be accepted (accepted promote action/A-PA), or | - |
| Unique | act as if they accept their teachers' promotion action, but do not accept their teachers' | - |
| Unique | It is necessary conducting this study because when students are identified, feedback would be | - |
| 1 results | This present study focuses on P-PA since this condition needs to be identified and | files.eric.ed.gov |
| Unique | does not mean that such PA would be positively responded to by all pupils in | - |
| Unique | This could be solved by guiding the students to follow or modify the existing | - |
| Unique | Teachers can only determine the PA to be implemented based on the level of | - |
| Unique | If what they implement is far beyond the students' understanding, an optimal development would | - |
| Unique | student to correct their answer classically written on the board Final activities 15 Teacher directed | - |
| Unique | teaching objectives, materials, methods, media, and evaluation, the author took some indicators of the form | - |
| Unique | They include: giving attention, internal process of learning activities such as correlating between concepts, | - |
| Unique | a particular instruction given by the teacher, participating actively, and paying attention to the teaching | - |
| Unique | not conducting particular instruction given by the teacher, and doing another activities not related to | - |
| Unique | promote action (P-PA) apparently by acting as if they accepted the promote action, but |  |

The author described the teaching process conducted by a teacher and identified which teaching

The subject of this study was a novice teacher in one of the junior
The novice was categorized based on years of teaching experience which range between
The teaching was conducted on first grade students of junior high school, and three

This study was conducted by having an interview with the subject based on the

After conducting the interview, the subject did the teaching in class and the author
This observation focused on every procedure of the teaching which was identified and categorized

The study observed the three students with different mathematical skills and collected data in
After completing the teaching process, the author had an interview with the teacher and
The interview done with the subject was to know whether the teaching-learning process succeeded

This was conducted to know if the teacher would likely change the teaching procedures
The interview with each of the three students was conducted to confirm their responses
The result of that observation was still assumption, and it would be confirmed after

Data collection was conducted through observation which involved field note, teaching recording, and interview
The author focused on identifying the subject's pseudo promote action (P-PA) based on responses

The result of the pre-teaching interview showed that the teaching was conducted by identifying

The teacher began the teaching process by praying, checking the number of students present,
The subject-matter of the teaching was to define and list the characteristics, circumference and

The teacher utilized a rectangular paper as the medium and named each of its

She began to define rectangle by folding the paper vertically and it was found
Next, the teacher asked the students to investigate the characteristics of rectangle from its In addition, the subject also asked the students to identify the rotational symmetry of Sometimes, in the process of identification, the teacher gave chances for the students to

| Unique | Overall, the promote actions apparent were number 1, 2, 5, 6, 8, 10, and |
| :---: | :---: |
| Unique | Subsequently, the author analyzed the video recording that corresponded to the observation note and |
| Unique | Following the interview, the author determined the category of the subject's promote action based |
| Unique | H as the student with high math skill, M as the student with moderate math |
| Unique | Promote action on number 1 was asking the students to correlate the example provided |
| Unique | The following was the excerpt of the teaching process and the interview with the |
| 51 results | Based on the Pictures 1 and 2, the subject seemed to ask about the |
| Unique | $\underline{L}$ could not clearly correlate the example with the material presented and pretended as |
| Unique | however, when it came to the interview, L could no correctly answer the question |
| Unique | This was revealed after conducting the post-teaching interview, and L admitted that she copied |
| Unique | It showed that the student just followed her friend when correlating the example with |
| Unique | Hence, the PA was also showed that L gave pseudo response toward the 748 |
| Unique | This PA got pseudo response from the students with the low math skill as |
| Unique | The following was the excerpt of teaching recording and the interview with the low |
| Unique | L: Its above, under, and beside A: If we use this, where are |
| Unique | As presented in Pictures 3 and 4, the subject asked about the shape of |
| Unique | At that moment, the subject had not present the concept of rectangle yet, hence, |
| Unique | The excerpt of the interview and the teaching recording noted that $L$ seemed quiet |
| Unique | L seemed quiet as if ignoring the subject but she, in fact, was able |
| Unique | Promote action number 5 was asking the student to note and explore the material |
| Unique | The following was the excerpt of the teaching process and the transcript of the |
| Unique | Both the teaching recording and the interview showed that L noted on her book |

docplayer.net en.wikipedia.org scribd.com mirrorservice.org archiveofourown.org bigfootbooksblog.blogspot.com docplayer.net eremita.di.uminho.pt en.wikipedia.org bookrags.com

This showed that L gave pseudo response to the subject's promote action, thus, the

## Promote action number 6 was by giving an instruction, The subject asked the student

The following was the results of the teaching recording and the interview with the
The teaching process recording S: Do you know what the angles of the long-square
Besides, if these are all congruent, l'd like to ask you, how is the
S: How could you say that it is 900 and where did you
be side-by-side ... (the subject helped the students to prove the large of the
in $90^{\circ} \mathrm{C}$ The results of the recording and interview showed that the subject directed the
The students were more likely to be quiet and did not respond, as if
However, she mentioned one of the components of rectangle, which was in terms of
This showed that the student gave pseudo response and it was categorized into pseudo

This similar promote action had pseudo response from the student with low math skill
The following was the excerpts of the teaching process recording and the interview with
Teaching recording The student kept quiet and ignored the teacher's direction (Pictures 9 and
L: As like this A: If it is this way, is this the fold
A: These and these are the same, these and these are the same as
751 that the student just kept quiet and ignored the subject's direction, seemed like

At the end of the interview, the student admitted that she just copied her
This showed that the student gave pseudo response toward the subject's promote action, thus

The following was the structure of the subject's P-PA during the teaching process in

The students showed pseudo responses categorized into P-PA when they kept quiet without showing
or she just followed her friend so the she seemed to give positive response to

This P-PA did not exist for the student with high math skill since she
Based on the chart above, it showed that the student with low math skill

| Unique | Conclusion This study was conducted with a first grade teacher of Junior High School |
| :---: | :---: |
| Unique | P-PA appeared in a condition on which the students kept quiet but, in fact, |
| Unique | They just partly complete the subject's instruction and copied their friend's answers as if |
| Unique | The advantage was this process could make the students identify the features of long-square |
| Unique | However, the subject, in particular, and teachers, in common, need to take consideration of |
| Unique | ) Proceedings of the 29th Conference of the International Group for the Psychology of Mathematics |
| Unique | AARE 2013: Australian Association for Research in Education Annual international Conference, Adelaide, SA, Australia, |
| Unique | Classroom And School Factors Affecting Mathematics Achievement: a Comparative Study of the US and |
| Unique | Teacher's Competencies and Factors Affecting the Performance of Female Teachers in Bahawalpur (Southern Punjab) |
| Unique | Pendidikan Dasar dan Menengah [Regulation of the Minister of Education and Culture of the Republic |


















































 J. Res. Math. Educ. 27(4):458-477.

