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# Proceedings

## **The 4th Annual INTERNATIONAL SEMINAR on Transformative Education and Educational Leadership**

Theme : Education Innovation in Indonesia Context Focused  
on Disruptive Technology of Industrial Revolution 4.0.

23 - 24 September 2019  
Garuda Plaza Hotel - Jln. Sisingamangaraja No. 18  
Medan, North Sumatra - Indonesia



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**Rundown of The 4<sup>th</sup> Annual Internatioanal Seminar on Transformative Education and Educational Leadership (AISTEEL) 2019**  
**Garuda Plaza Hotel, Medan, 23 – 24 September 2019**

**1st day (Monday, September 23, 2019)**

Time	Activities	PIC
15.00 – 20.00	Registration in Garuda Plaza Hotel	committee

**2nd day (Tuesday, September 24, 2019)**

Time	Activities	PIC/Moderator
07.00 – 08.30	Poster Sessions 1	Section Poster 1
08.30 - 09.00	<b>Opening Ceremony</b> 1. MC Speech 2. Traditional Welcome Dance 3. Indonesian National Anthem 4. Pray 5. Chairperson Report 6. <b>MoU signing between Unimed and PSU - Thailand</b> 7. Welcoming speech of Director of Postgraduate School 8. Welcoming speech and official opening of Rector of State University of Medan	MC
09.00 – 09.40	Plenary Lecture 1: <b>Prof. Dr. Syawal Gultom, M.Pd</b> (State University of Medan– Indonesia)	Moderator Section
09.40 – 10.25	Plenari Lecture 2 <b>Prof. W. L. Quint Oga-Baldwin</b> (Department of Education, Faculty of education and Integrated Art and Sciences, Waseda University - Japan)	Prof. Amrin Saragih, PhD (Panel)
10.30 – 11.15	Plenari Lecture 3 <b>Prof. Dr. Wu-Yuin Hwang</b> (Graduate Institute of Network Learning Technology National Central University, NCU - Taiwan)	
11.15 – 12.00	Plenari Lecture 4 <b>Prof. Dr. Ekkarin Sungtong</b> (Dean of Faculty of Education Prince of Songkla University - Thailand)	Mangara Simanjorang, PhD (Panel)
12.00 – 12.45	Plenari Lecture 5 <b>Asst. Prof. Patcharin Panjaburee, Ph.D.</b> (Mahidol University – Thailand)	
<b>12.45 – 13.30</b>	<b>Lunch Break/</b> Poster Sessions 2	Section Poster 2
<b>13.30 – 15.30</b>	<b>Parallel Session 1</b>	
15.30 – 16.00	Break/ Poster Sessions 3	Section Poster 3

15.50 – 18.00	<b>Parallel Session 2</b>	Moderator/Operator
18.00 – 19.00	Break/ Prayer	
19.00 – End	Banquet (Gala Dinner) - Announce of Best Presenter - Announce of Best Poster	Consumption Section

## **Proceedings of the 4<sup>th</sup> Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2019)**

### **Preface**

The 4<sup>th</sup> Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2019) was held in Garuda Plaza Hotel, Medan City-Indonesia on 23-24 September 2019. This seminar is organized by Postgraduate School, Universitas Negeri Medan and become a routine agenda at Postgraduate program of Unimed now.

The AISTEEL is realized this year with various presenters, lecturers, researchers and students from universities both in and out of Indonesia participating in, the seminar with theme “Education, Learning and Leadership Innovation.”

The plenary speakers coming from various provinces in Indonesia have been present topics covering multi disciplines. They have contributed many inspiring inputs on current trending educational research topics all over the world. The expectation is that all potential lecturers and students have shared their research findings for improving their teaching process and quality, and leadership.

The fourth AISTEEL presents a keynote speaker and 4 distinguished invited speakers from Indonesia, Japan, Taiwan, and Thailand. In addition, presenters come from various Government and Private Universities, Institutions, Academy, and Schools. Some of them are those who have sat and will sit in the oral defence examination.

There are 310 articles submitted to committee, some of which are presented orally in parallel sessions, and others are presented through posters. The articles have been reviewed by double blind reviewer and 172 of them were accepted for published by Atlantis Press indexed by International Indexation and 96 papers are published by digital library indexed by google scholar.

The Committees of AISTEEL invest great efforts in reviewing the papers submitted to the conference and organizing the sessions to enable the participants to gain maximum benefit.

Grateful thanks to all of members of The 4<sup>th</sup> Annual International Seminar on Transformative Education and Educational Leadership (AISTEEL 2019) for their outstanding contributions. Thanks also given to publisher for producing this volume.

The Editors

**Bornok Sinaga**  
**Rahmad Husein**  
**Juniastel Rajagukguk**

## *Table of Content*

<b>Title And Authors</b>	<b>Page</b>
Learning Media Development of Foklore Text Which is Based on Digital in the 10th Grade of Vocational High School PAB 1 Helvetia <i>Yogi Andriyan Zunaeidy</i>	1-3
Translation Shift in the English Version of Musabaqah Tafsir Quran <i>Muhajirah Binti Jamaluddin</i>	4-8
Types of Lexical Creation in Iis Dahlia's Slang Words in Mamaku Hits <i>Filzah Farhana Hasibuan</i>	9-12
The Effect of Learning Strategies and Achievement Motivation on Entrepreneurship Learning Outcomes of Scout Special Unit Education and Culture Program BP-PAUD and DIKMAS Sumatera Utara <i>Johanes Pasaribu</i>	13-16
Analysis of Student's Science Process Skill on Respiration System Topic in Langsa City- Aceh <i>Ajeng Lola Prianti</i>	17-20
Meaning Equivalence in Abdullah Yusuf Ali's Translation of Surah al waqiah from English into Indonesian <i>Wirdatul Mardhiah</i>	21-22
Developing an Authentic Assessment Instrument of Exposition Text Based on Higher Order Thinking Skills (HOTS) in Class X Students of Senior High School <i>Yuli Novita Sari</i>	23-26
Sentence Acquired by Children of 2 – 2.6 Years Old in Bilingual Environment <i>Laura Agustina Simamora</i>	27-29
Development of Study Peripheral Base on the Realistic Approaches to Increase Ability of Mathematical Reasoning of Student Junior High School State 6 Medan <i>Melisa</i>	30-35
Effectiveness of Ecology and Environment Textbook Based on Science Literacy and North Sumatra's Local Potency to Improve High School Student Science Literacy <i>Ivandi Sitompul</i>	36-39
Deposit Determinant Analysis in Bank Sumut <i>Mangaradot Saur A Sinaga</i>	40-47
Development of Teaching Materials Based on Guided Discovery Learning Methods to Increase Mathematical Problem Solving Ability <i>Rianta Ananta Sitepu</i>	48-55
Development of Mathematical Learning Devices Based on Model Problem Based Learning (PBL) to Improve Mathematical Communication Skills of School IT Jabal Noor Students Class VII	56-65

*Rizka Putri Rahayu*

Development of Thematic Teaching Materials Based on Local Culture at The Fourth Grade of Primary Schools in North Padang Lawas District 66-69

*Rahimul Harahap*

The Maintenance of Mandailing Language Kecamatan in Torgamba

*Putri Nurul Rahmadani Siregar* 70-76

Enhancing Students Mathematical Conceptual Understanding by Applying Guided Discovery Learning and Direct Learning Model 77-82

*Sri Rahwany Marbun*

Development of Learning Devices Based on Realistic Mathematic Education to Improve Mathematical Communication of Students at Senior High School 83-86

*Karina Hajar Hutasuhut*

The Developing of Interactive Learning Media in Improving The Learning Creativity of 4-6 Year-Old Playgroup Students in PAUD Kenanga Raya Medan 87-89

*Romi*

The Influence of Learning Approaches and Interest in Learning Against the Results of Learning English in Class VIII Medan SPK Middle School T.A 2018/2019

*Juni Triana Sitompul* 90-94

Determinant Analysis of Sharia Banking Efficiency in Indonesia

*Rahmat Putra Ahmad Hasibuan* 95-99

The Development of Interactive Instructional Media Based on Behavioral Perspective to Improve the German Skills of Senior High School Students Grade X 100-102

*Hadijah Handayani Sibuea*

Development of Guided Inquiry Green Chemistry Practicum Guides 103-106

*Ekin Dwi Arif Kurniawan*

The Development of Adobe Flash Media Integrated Problem Based Learning on Salt Hydrolysis 107-110

*Indriati Aulia*

The Effect of Learning Strategy and Interpersonal Communication on the Students Achievement Reading Comprehension English Language at SMP Negeri 1 Selesai Kabupaten Langkat Tahun Ajaran 2018 / 2019 111-115

*Husna Lubis*

Cognitive Consideration in Persuading Readers in Argumentative Writing 116-119

*Betharia br. Sembiring Pandia*

The Role of the Single Mother of Parenting in Informal Education in Javanese Ethnic Families in Kualuh Hulu District Labuhanbatu Utara Regency 120-122

*Suriyanti Siagian*

Understanding of Female Prisoners Character Education Through Formal 123-125



Socialization at Labuhan Ruku Penitentiary

*Dian Puspita Sari Sirait*

Local Wisdom-Based Education Marsialapari Salak Farmers Sibangkua Angkola Barat Tapanuli Selatan 126-128

*Desy Andarini*

Rituals at the Tomb of Datuk Darah Putih as a Media for Nonformal Education to Respect Ancestors (Case Study Chinese Ethnic in Aur Village Medan Maimun District Medan City) 129-131

*Gadis Anastasia*

Interactive Multimedia-Based Learning Materials Innovation for Teaching Basic Techniques in Analysis 132-134

*Yuni Chairani*

The Effect Model of Learning and Learning Interest Against the Results of Learning the Knowledge of Nature Primary School (SD) in Medan T.A 2019/2020 135-139

*Mida Lishanata*

Development of Interactive Media in Arabic on the Material Read Class VIII of MTs Darul Hikmah T.A 2019/2020 140-143

*Nurul Amri*

The Influence of Leadership Behavior, Work Motivation, Job Stress, and Job Satisfaction on Lecturers' Performance 144-146

*Hanafiah*

Developing Big Book as Reading Materials Based on Thematic Approach for Fourth Grade Students at SD Negeri 028068 Binjai East Binjai Regency Langkat 147-149

*Utari*

The Development of Textbook Based on Research About the Insect Pollinator on Chili Paper (*Capsicum annum L.*) 150-154

*Fitriatul Aspahani*

Gratitude Expressions and Responses used by the Characters in the Vow Movie 155-158

*Sabrina Octavia Pandingan*

Subtitling Strategies Used in The Meg Movie Texts 159-164

*Devi Sucina Nirwana*

Lexical Metaphor in Novel and Film Critical Eleven 165-167

*Indah Christiani Silitonga*

The Types of Modality in Teaching Learning Process 168-169

*Harnida Tanjung*

The Effect of Teaching Strategies and Students Motivation on Reading Comprehension Achievement 170-173

*Zulkarnain Batu Bara*

The Types of Flouting Maxim by Governor Candidates of North Sumatera in Election Debate 2018	174-176
<i>Tri Wita Indah Sari</i>	
The Effect of Teaching Strategies and Students' Interest on Reading Comprehension of Recount Text of Eighth Grade Students of MTs Qur'an Kisaran	177-179
<i>Ahmad Fauzi</i>	
Flouting Maxims in the Courtroom of Administrative Court	180-182
<i>Aminah Ari Fadhila</i>	
Development of Adobe Flash Learning Media Based on Cooperative Learning to Improve Student's Spatial Ability at Chandra Kumala Secondary School	183-188
<i>Fajar Sukma Harsa</i>	
Improving Results in Learning Bahasa for Poetry Readings with the Implementation of a Direct Learning Model for Fifth Grade Elementary School	189-192
<i>Dr. Mayske Rinny Liando, S.Pd., M.Pd</i>	
Development of Learning Materials Based on Problem Based Learning to Improve Students Problem Solving Ability	193-197
<i>Poppy Amalia</i>	
Analysis Of The Economic Bilateral Relationship Indonesia – China On Balance Of Payments In Indonesia	198-201
<i>Sri Wulandari</i>	
Community Participation in Preservation of City Park The Case of Binjai City, Indonesia	202-204
<i>Widya Afriani Wiliskar</i>	
The Types of Gender Arguments in Instagram (A Case Study of Donald Trump's Political Status)	205-207
<i>Putri Permata Sari Samosir</i>	
The Analysis of Monetary Policy Transmission Mechanism by Exchange Rate Channel in Influencing The Inflation in Indonesia	
<i>Putry Sari Rahmadyah Pulungan</i>	208-214
Translation Technique Applied in Translating the First Call from Heaven Novel	215-222
<i>Sudariyani</i>	
Education Cultural in Bona Pasogit (Ethnographic Study of Education Cultural Inheritance in the Toba Batak Society Marga Panjaitan in Pematangsiantar)	223-225
<i>Tripresar Jhon Tuan Panjaitan</i>	
Evaluation Of Tiered In Order To Increase PAUD Teacher Competence In Medan City	226-230
<i>Rehmenda Christy</i>	
Women Politeness Strategies of Bargaining "Media Credit Store" in Tanjung	231-233

Morawa

*Nahdyah Sari Daulay*

Toba Batak Language Shift in Rantau Selatan

*Helfi Vinawari S*

234-236

Development of Interactive Multimedia Digital Storytelling in English Subjects

237-239

*Juanda*

The Effect of PLAN (Plan, Locate, Add and Note) Strategies on Students' Achievement in Reading Comprehension

240-244

*Neneng Nurhamidah*

Unggah-Ungguh Code Switching in Kartini Movie

*Yutika Sari*

245-247

Metaphors in Umpasa of the Toba Batak Wedding Ceremony

248-250

*Sactica Oktavyani Sagala*

The Effect of Model learning and Gender Against Piano playing Skills for class V SMK Negeri 11 Medan T.A 2019/2020

251-255

*Gufran Nurman*

The Effect of Cooperative Learning Model Based on Aceh Culture to Improve the Generic Science Skills of Student

256-260

*Safitri Raufa*

Gender Conversation in Workplace Context

*Aisyah Fitriani Dasopang*

261-265

Management and Development Quality of Teacher Performance Through Teacher Competence in the First Middle School in Banda Aceh

266-268

*Faisal Anwar*

Modality used in Beauty Product Advertisements on Instagram Caption

269-272

*Indah Eka Sari*

Attitudinal Appraisal in Ahok's Speech

*Firdha Sabrina*

273-276

Appraisal Attitudes by the Judges on Indonesian Idol "Grand Final" Session

*Mieta Setieya*

277-280

The Development of Virtual Laboratory-Based Learning Media of Biology on The Topic of Bacterial for High School Students

281-284

*Lailatussyifa*

Analysis of Economic Opening on Rupiah Exchange Rate on United States Dollars (2008-2018)

285-289

*Sri Wahyuni*

The Manners of Cognitive Process in Translating English Phrasal Verbs Into

290-293

Indonesian

*Fitri Ervina Tarigan*

Javanese Addressing Terms Maintenance by the Teenager Speakers in Bukit Malintang 294-298

*Sudarti Rahayu Ningsih*

Appraisal in Students' Argumentative Writing 299-302

*Ika Vanesia Siagian*

Speech Pauses Used by Male and Female Students in English Oral Examination 303-305

*Lamia Deareni*

The Development of Guidance and Integrated Science Practicum Kit Integrated Guided Inquiry Model bases Science Process Skills for Class VII Semester I 306-309

*Fretty Nafratilova Hutahaeen*

Analysis of Biomolecular Practicum Guides According to KKNi Curriculum 310-313

*Nurul Indah Pratiwi*

The Cognitive Process of Different Gender in Writing Argumentative Text 314-318

*Surya Teriadi Tarigan*

The Development of Chemistry Lab Guide Book for High School Based on Guided Inquiry to Measure Scientific Attitudes and Science Process Skill 319-325

*Gorat Victor Sibuea*

The Unnaturalness of the Translatio of Indonesian Tourist Resorts Signs Into English in Parapat and Bukit Lawang 326-328

*Iis Aprianti*

Grammatical Error of Speech by Students in Bilingual Program of Ma'had Al Jami'ah UIN North Sumatra 329-332

*Riyah Shibha Nasution*

Speech Functions Used by Male and Female Tour Guides in Their Touring Interaction with Tourists in Bukit Lawang 333-336

*Widya Ningsih*

Analysis of the Influence of Economic Openness to Indonesia Growth 337-340

*Zando Silaban*

Design Development and Standard Operational Procedure for Training Model Management of 3 Diploma Mechanical Engineering University of Medan 341-345

*Mindo Judica Pangaribuan*

The Euphemism in "Sambah Manyambah" Tradition of Minangnese Wedding Ceremony 346-348

*Muhammad Fauzi*

Analysis of Factors That Influence the Interdiction of District/City in the Province 349-354

North Sumatra

*Muhammad Yulhelmy Isra*

Development of Interactive Learning Media Based on Adobe Flash CS 6 in Geographic Lessons 355-360

*Mardimpu Sihombing*

The Comparison between Predict Observe Explain (POE) and Think Pair Share (TPS) Learning Model on Students Learning Achievement, Activity, and Critical Thinking Skill on Human Circulatory System 361-367

*Remli Nelmian Simarmata*

Metaphor Translation in English and Indonesian Version of Surah Ali Imran 368-371

*Uswatun Hasanah*

# The Effect of Teaching Strategies and Students Motivation on Reading Comprehension Achievement

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**Abstract**—Teaching strategies especially Think pair Share and Directed Reading Thinking Activity (TPS) and (DRTA) model used to teach students motivation on reading comprehension achievement. The purpose of this study to find out the effect of Teaching Strategies on students' reading comprehension achievement. This study is experimental research design using the experiment and control groups. This research was experimental design, the instruments were questionnaire sheet and reading test. The result showed that from mean score of experimental class 87.8, and mean score of control class 84.67. The data were analyzed by using SPSS program for windows version 20. Based on the data analysis of reading score showed that *t-calculate* gained 2,42 more than *t-table* 1,68 or sig gained 0,003 less than 0,05. This means  $H_0$  refused and  $H_1$  accepted to there is the effect of TPS and DRTA teaching strategies on students reading comprehension achievement.

**Keywords**-teaching : teaching strategies; reading comprehension; narrative text

## I. INTRODUCTION

English as a foreign language has been learned by Indonesian students since they are Secondary High School to university. It means that English is an important or compulsory subject in Indonesia curriculum. The students have to learn four skills to help them to understand English language. There are four skills namely listening, speaking, reading and writing. One of the four language skill is reading. It means that reading is a skill that has been learned by the students. By reading, the students can know the content of a text.

reading comprehension is someone ability making your eyes and brain work together to process words at a high rate of speed[1]. It is really clear information that to understand the text as efficient as possible, the reader should predict and understand the text first. After that, they can get the meaning and comprehend the text. Based on definition above, reading comprehension is the process of extracting and constructing meaning from the text. There are three interactive elements which impact comprehension: the reader, the text, and the context. The reader is doing the comprehension. The reader

includes capacities, abilities, knowledge and experiences impact the act of reading. The text is anything that is read. The context is the activities of which comprehension is a part.

Based on preliminary observation conducted by researcher as English teacher of tenth grade students in high school Muhammadiyah 8 Kisaran there are a number of crucial issues concerning the teaching and learning of reading comprehension. Students in this level have difficulties in identifying the information of reading passage. First, the students could not find specific information which is included in the Narrative text that was given by the teacher. Second, some students always feel bored when they are studying reading because they do not know the language feature and generic structure to understand the reading material easily especially in narrative text. Third, the students were lack of vocabulary and the students have low motivation.

Beside on definition above teaching strategies are needed to connect the student's background knowledge with the new information in given text and to overcome the student's lack desire of reading comprehension in order to increase their motivation in reading. In this case there are two teaching strategies which are selected in this study. They are Think Pair Share and Directed Reading Thinking Activity.

The think-pair-share technique was cooperative learning, developed by Lyman and associated to encourage students' classroom participation. The good things of the think-pair-share technique are that is a quick activities, does not take a long time, motivate students, can be adapted to all levels, engages the whole or parts of class, and allows teachers to circulate among the students to advice, correct, and evaluate them. It's also can make students sure that study English is easy by using TPS method. It's a teaching method introduced into the peer interaction of cooperative learning which has been demonstrated to be a powerful factor in improving students' response to the questions[2]

"The Direct Reading Thinking Activity is defined operationally as a reading strategy which consist of 6 steps. Ren Eilar (1999:i) stated that "the DRTA strategy is one of such approach, built around the core of components of direct, explicit reading comprehension instructions[3].

This is not the first study in the academic world. There have been some previous studies conducted by several researchers related to this research. They are inspiring the researcher to do a further study about it. Related to this study, the researchers found some previous researchers in the journals either national or international which are related to the title that is going to be conducted. Some of them discussed about Teaching reading by using Think-Pair-Share technique is an effective technique in the process of teaching and learning English, especially in students reading comprehension skills [4]and the experimental group who was taught reading comprehension by using Directed Reading Thinking Activity (DRTA) got better reading comprehension achievement than the control group that was taught by using conventional strategy[5].

Based on the problem of the study,the objectives of this study are following:

1. To describe there is significn effect teaching strategies and students' motivation on reading comprehension achievement.

## II. THEORITICAL REVIEW

reading comprehension is a complex process that demands skills and strategies. Reading comprehension is an evaluating process. There are many types in reading comprehension in order to read a text. Each type has a different advantages and disadvantages for the reader. And it depends on what type of reading that will used by the reader to read a text. Patel and Jain (2008: 117) says there are some types of reading: a.Intensive Reading, b. Extensive Reading c. Aloud Reading, and the last Silent Reading. for example in this case using narrative text.

In reading comprehension we can use some strategis for teaching reading, in this case researcher use TPS and DRTA strategies.TPS strategy is a part of cooperative learning. To make a case for collaborative learning seems easy. Research on learning in small groups exists than on any other instructional method, including lecturing.TPS consists of some steps. Kagan (2009) states there are five steps in TPS. They are: a) Organizing students into pairs by dividing the students into pairs randomly. The purpose of choosing randomly is to avoid the gap between high students and low students[6].

b).the topic or a question is posing a question or a topic to the students. This question should be in general and has many kinds of answers. It makes the students think deeper and deeper, and they can give their opinions in many aspects. c).Giving time to students to think meanwhile the teacher should give the students several minutes to think an answer of the question given before. d)Asking students to discuss with their partner and share their thinking. In this section, each students share his or her own answer to his or her partner in pairs. They share their thinking and discuss each other to find the best answer. e)Calling on a few students to share their ideas with the rest of the class. This last step is calling some students to share their ideas with the rest of the class. Some

students give their answer, and the others can give their opinion or other answers.

These some advantages of Think-Pair-Share technique: a.The notion of the positive effects of “wait time” upon the quality of student responses in the classroom. b.Nonnative speakers must first linguistically decipher the question itself and then cognitively from a response to it c.Wait time not only offers time for linguistic interpretation of the question but also response formation. d.Pairing with another student gives an opportunity to orally share their response with a classmate and receive valuable feedback.

The Think-PairShare technique also has some disadvantages, they are as follows:

- a. Not all students focus on the topic given, because they can share everything with their partner out of the topic (question) given.
- b. There is a possibility that the students who have low understanding about the topic given likely chat to the other pairs

As stated by El-Koumy (2006:3) “The Direct Reading Thinking Activity is defined operationally as a reading strategy which consist of 6 steps.This are the steps of Direct Reading Thinking Activity (DRTA) says El-Koumy (2006:3) as follows:

1. The teacher writes the title of the reading passage on the board and asks students to read it,
2. The teacher asks students to make predictions about the title using these questions:
  - a) What do you think a passage with a title like this might be about? b) Why do you think so?
3. The teacher lists predictions on the board and initiates a discussion with the students by asking them to respond to the following questions:
  - a. Which of these predictions do you think would be the likely one?
  - b. Why do you think this prediction is a good one?
4. The teacher invites students to work in small groups to complete the discussion following the same format.
5. The teacher asks students to read the passage silently and to confirm or reject their own predictions. Then he asks them the following questions:
  - a) Were you correct? b) What do you think now? c) Why do you think so?
6. The teacher asks students to reflect on their predictions through responding to the following questions:
  - a) What prediction did you make?
  - b) What made you think of this prediction?
  - c) What in the passage supports this prediction?
  - d) Do you still agree with this prediction? Why?[7]

Each teaching strategy certainly has advantages and disadvantages, as well as advantages of DRTA are: a)Students

– centric : This encourages critical thinking in students, and gives them a chance to come forward and demonstrate what they have learned. b)Raises the Bar : Educators have the liberty to set up classroom and devise method that would aid all students in thinking, analyzing and comprehending the teaching contents easily. c).Meeting the needs and interests of diverse learners. d)Provides the opportunity for students to learn at their own pace, in their own way, and be successful. d)Recognizes students' varying background knowledge, readiness, language, preferences in learning, interest, and to react responsively.

#### Disadvantages of DRTA Strategy

Each teaching strategy certainly has advantages and disadvantages, as well as disadvantages of DRTA are: a)Time constraints and chopped-up schedules are an obstacle, b) Class size and teaching load are two of the bigger constraints, c)Teacher preparedness

Motivation is a theoretical construct used to explain the initiation, direction, intensity, persistence and quality of behavior, especially goal-directed behavior (Maehr & Meyer, 1997 in Brophy, 2010) Motives are hypothetical construct used to explain why people do what they do. The characteristics of students with low motivation are :

- 1) Students may be easily distracted when listening to their teacher or completing assignments on which they are working,
- 2) Students may find it difficult to get started on their homework or other class project,
- 3) students may not put much effort into assignments and they may find it difficult to participate in class and to stay focused on learning information being taught,
- 5) students are more likely to blame someone or something else for their poor performances.

On the other hand, the characteristics of students with high motivation toward learning are highly-motivated students: 1) likely have a stronger desire to learn 2) focus on goals to help them stay committed to putting forth the effort and doing what is necessary to benefit from school, 3) are more likely to work hard at participating in their classes and at learning the material presented, 4) are more likely to keep working in the face of difficulties when trying to understand a concept or complete a long, complex assignment, 5) tend to see success as a function of their effort 6) understand that there are factors they can't control, and focus on the factors that are controllable.

### III. METHOD

This research was an experimental design. According to Gay, the purpose of experimental design is to establish cause-effect relationship between two variables [8]. They also said experimental research involves a comparison of two groups, an experiment and control group. In this research, we took two samples group. One group as experimental class consists 36

students will give treatment by Think Pair Share and other one as control class consists of 36 students will give directed reading thinking strategies. The population of the research is first year students of First High School Muhammadiyah 8 Kisaran in the academic year of 2018/2019.

In this research, we used two classes as the sample. The sample of this research consists of two groups are experimental group and control group. In this research, we will choose sample by giving test to all population. Then, we gave normality and homogeneity test to find whether data which is collected come from normal distribution or not. Next, we used cluster sampling technique. We used cluster sampling because the population is very large which is distributed into three classes.

The instrument of this research was reading test and observation. This reading test was constructed in multiple choice by using 1 genre, narrative text, the test consists of 30 items. We gave eight meetings. The text consists of six narrative texts. The students were given 60 minutes to do the try out test at non sample before that the students must complete questionnaire sheet given by teacher consists 20 items. The instrument should have validity, reliability and items difficulty and items discrimination to get the research finding. The observation was used to record and to collect real information of teaching and learning process during conducting the research. The data is collected through direct observation on both teacher and students during teaching and learning process

### IV. FINDINGS AND DISCUSSION

After doing pretest, we taught reading to the students by think pair share in several times and followed by posttest. There were 36 students who were taught by think pair share. The students got score 76-80 was 4 students, the students got score 84-88 was 15 students, and the students got score 92-96 was 11 students. The total of students' score were 2636 with the mean score 87.87, the standard deviation 5.704. The highest score students' reading 96 and lowest score was 76.

There were also 36 students who were taught by directed reading thinking activity. The students got score 72-76 was 3 students, the students got score 80-84 was 16 students, the students got score 88-92 was 9 students, the students got score 96 was 2 students. The total of students' score were 2540 with the mean score 84.67, the standard deviation 6.042. The highest score students' reading 96 and lowest score was 72.

At experimental class, the total score students before using picture series was 2060, and after using picture series the total score students was 2636. Therefore using think pair share could increase the total score students as many as 576. While at control class, the total score students before using power point was 1980, and after using directed reading thinking activity the total score students was 2540. Therefore using directed reading thinking activity can increase the total score students as many as 560.

Based on explanation above, it showed that teaching reading using think pair share can increase reading



comprehension students about narrative text. The students can improve their reading comprehension about coherence, vocabulary and background knowledge on the text through think pair share. The students find coherence of the text between sentences of one and another and they can see the story directly. The students know vocabulary from malin kundang story and the legend of tangkuban perahu and the legend of toba lake by using think pair share the students can improve their background knowledge about the phenomenon by the group.

The result of Kolmogorov-Smirnov statistics analysis showed that the significant score for all groups are higher than 0.05, it means that the data of the students' reading comprehension were obtained from normal distributed samples. Based on the results of the output variance test for normality using the one sample kolmogorov - smirnov test, significant value in the data experimental group 0.575 and control class 0,302, because of significant value both classes take more than 0,05 it can be said that class control and experimental with normal distribution

In this study, the homogeneity was tested to know whether each class had the same variance or not. It was tested by variance formula. It can be concluded that F observed for students' reading comprehension was bigger than ratio F table ( $F_{observed} > F_{table}$ ) and  $Sig < 0,05$ . It means that both of variance were homogenous.

## V. CONCLUSION

Based on the data analysis above, it can be concluded that teaching reading by Think Pair Share was more effective for students to comprehend the text. It is shown the result of this research that the mean score of experimental class (87,87) was higher than the mean score of control class (84,67). Furthermore, t-calculated (2,42) at the degree (70) of level significant 0,05 was bigger than *t-table* 1,69 or sig  $0,03 < 0,05$ . Thus, the hypothesis of this research is accepted. In other words, teaching reading using Think Pair Share gave significant effect on students' reading comprehension of Narrative text at High school Muhammadiyah 8 Kisaran in academic years 2018/2019.

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