

Development of Creative-Reading Skill Assessment Instruments for Indonesian Language Learning in Elementary Schools

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Abstract. This study aims to examine the needs of elementary school teachers related to creative reading assessment instruments, develop related instruments, and conduct trials of the developed instruments. The research and development method of the Dick & Carey model was chosen for the instrument design and development process. The study was carried out in three phases: the needs analysis phase, instrument development, and the implementation and assessment phase. Five experts, three teachers, and twelve students have been assigned to assess the four creative reading instruments developed in the second phase. In the third phase, namely the implementation and assessment phase, one elementary school, eight students, and one Grade 5 teacher were assigned to carry out small group assessments. The next activity is revising and perfecting the instrument. The next step is implementation and assessment in large groups (involving one elementary school, one teacher for grade V and all grade five students). The data from the study were processed using qualitative research principles. The results of expert and user assessments indicate that the four instruments developed have met the requirements of validity, reliability, and usability. The results of the small group assessment show that of the four instruments developed, two instruments are recommended to be continued in the large group assessment. The results of the assessment in the large group, both instruments meet the usability requirements. The findings indicate that the instruments developed in this study are effective, complete, in accordance with the needs of the teacher or the user, right on target, and simple to understand and use. This study implies that the creative reading assessment instrument developed was in accordance with the needs of elementary school teachers.

Keywords: Creative-Reading Skills · Elementary School

1 Introduction

It is essential to carry out assessments to improve the quality of education and learning [1]. In a classroom context, assessment literacy is the knowledge and skill required to compile student achievement data and use assessment processes and results effectively to improve student achievement [2]. The main rules for teachers in collecting assessment

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information for class decisions are student products, observation techniques, and oral questioning techniques [3]. In any educational context and at any level, assessment is an integral part of the learning process [4] Learning and assessment have a complex and interrelated relationship [5]. There are three concepts of assessment in a classroom context, i.e., assessment for learning, assessment of learning, and assessment as learning [6].

Assessments can provide feedback to teachers regarding their teaching approach and students' learning progress. It can also provide feedback to curriculum developers regarding the curriculum. An adequately structured assessment can guarantee teachers, as well as curriculum or course developers, that objectives are achieved [7]. A proper assessment can observe the actual classroom learning process Assessment is a bridge between teaching and learning [8]. Therefore, teachers must be involved in various assessments throughout the teaching process to monitor and evaluate student learning and adjust lesson design based on the assessment's findings, processes, and results An assessment is an effective communication medium between teachers and students. It is a method for students to communicate their learning to teachers and for teachers to provide feedback to students about their learning [9].

The learning process at school is based on a curriculum, i.e., a design that includes objectives, content, learning materials, and ways to achieve learning objectives. Learning is also carried out to achieve the competencies determined in the curriculum. Meanwhile, assessment collects and processes information to measure student learning outcomes [10] Assessment should not ignore the importance of curriculum and learning because it can lead to educational inconsistenci Assessment has the potential to focus on teachers when ensuring reliability, accountability, transparency, and consistency across contexts and to make a positive contribution to public confidence in the education system [11] The ultimate goal of all assessments is to create the most effective learning environment for each student [6].

At the elementary school level, learning outcomes are assessed by educators (teachers), academic units (schools), and the government. The educators (teachers) assess attitude, knowledge, and skill through examinations, observations, assignments, or other necessary forms. The assessment by academic units (school) covers aspects of knowledge and skills via school final exams. Meanwhile, the government's assessment is carried out as national exams or other necessary forms [12]. The assessments follow the concepts of assessment for learning (formative function), assessment as learning (to develop and support student metacognition), and assessment of learning (summative function). The summative function validates what students know and are allowed to do, shows whether they have fulfilled curriculum standards, and, at times, shows their position to others [13].

The aspects of learning assessment at the elementary level include attitude, knowledge, and skill. Assessment of learning outcomes is carried out to understand the process and students' progress, as well as improve learning outcomes on an ongoing basis. The purpose of the assessment is to (1) determine the competence, attitude, knowledge, and skill, (2) determine the level of learning competence at a certain period, (3) realize remedial and enrichment programs, and (4) improve the learning process, as well as establish

improvement and enrichment programs. The assessment criteria are based on achievement standards or levels set to be achieved by students as self-measurements without comparing them with the achievements of other students or groups [14].

Meanwhile, stated that the purpose of assessments at the elementary school level is (1) to inform students about their learning progress, (2) to inform teachers regarding self-evaluation, (3) to diagnose problems potentially faced by students, (4) to inform other teachers about student achievement, primarily related to class and school transfers, (5) to inform parents regarding student's learning progress, (6) to inform principals regarding student achievement for school self-evaluation archives and information for school supervisors, and (7) to meet statutory evaluation requirements. A well-executed assessment affects the learning process [15]. The teacher or evaluator should ensure that the assessment result is helpful for students and follows the learning context.

Regarding reading skills in the Indonesian language class in elementary schools, teachers conduct assessments to determine students' reading skills. This assessment is part of the learning process. Reading lesson in elementary school is distinguished into early reading carried out in the lower grades, and advanced reading carried out in the higher grades [16] Early reading is categorized as learning to read Meanwhile, advanced reading tries to understand the message in the article also commonly known as the reading level for learning and analytical reading [17]. The virtue of advanced reading is understanding the article's content [17]. Reading can also be classified into (1) recognizing letters, (2) reading fluency, (3) reading comprehension, (4) reading appreciation, and (5) creative reading [18].

This study defines creative reading as a process referring to Bloom's revised taxonomy [19] that covers six cognitive levels: remembering, understanding, applying, analyzing, evaluating, and creating. The process of creating is the highest cognitive process in Bloom's updated taxonomy which involves organizing information in new ways to create a new product. Students use cognitive processes of understanding, analyzing, and evaluating at this level to create new products based on the text. Creative reading is based on access to new images, fiction, and diagrams in the reader's mind, beyond the information contained in the text [20].

Reading assessments can be carried out in various ways to obtain beneficial information and to help students become better readers [21]. Various reading skills taught in class should be equipped with various evaluation instruments accompanied by a marking rubric. A well-executed reading assessment can provide accurate information regarding students' reading abilities and levels [22]. The better the instrument quality, the greater the trust in markers and decision-making; therefore, it is critical to use high-quality instruments to carry out the assessment [23]. The two main elements contributing to the instrument's quality are validity and reliability [24].

Previous studies have found that elementary school students' reading assessment process and outcome are still problematic. A study found that teachers did not use marking guides to assess reading skills in elementary school; thus, the student's reading skill levels were uncertain [25] Meanwhile, another study found that the fourth grader's reading ability remains poor, based on the 2006 PIRLS (Progress in International Reading Literacy Study) test and local test results (developed by the reviewer) [26]. The study result

supports previous data, i.e., the reading comprehension of Indonesian fourth graders fell in the low category based on the result of the 2006 PIRLS test [27].

Similarly, several studies also discovered that the reading comprehension of Indonesian fourth graders remained poor based on the 2011 PIRLS test compared to the local test The 2011 PIRLS result shows that the reading comprehension of Indonesian students is below the international average. Indonesia was ranked 42 out of 45 participating countries with a score of 428 out of an average of 500 [28]. The reasons for this issue are (1) the tendency of Indonesian students to answer questions by guessing, (2) that learning lessons in class have not prioritized the development of reading competence, and (3) that reading habits have not been appropriately developed [29] The reading comprehension of Indonesian elementary school students remained poor [30]. A study by involving 1,941 elementary schools and 48,682 as part of the Indonesian National Assessment Program (INAP) or the Indonesian Student Competency Assessment (AKSI) found that 46.83% of student reading competence was in a poor or low category, 47.11% is sufficient, and 6.06% is good.

A study found that the learning method by elementary school teachers had a weakness, i.e., the development of assessment instruments. The teachers who were the study subjects had not mastered the concept of reading assessment and reading comprehension correctly. Another study [31] revealed that (1) the assessment carried out by teachers has not met the standard, (2) the teacher rarely evaluates language skills, (3) the assessment instrument was complex, challenging, and required much time to develop, and (4) teachers' lack understanding of technically authentic assessments. The study's findings indicate that the assessment, its implementation, and the development of reading assessments at the elementary school level are still problematic and impacts reading lesson outcomes reflected in students' reading competence. The development of standardized assessment instruments is one of the difficulties experienced by elementary school teachers [32]; therefore, it is crucial to develop an assessment instrument guide for elementary school teachers [33].

Three issues need to be answered through this study: (1) what kind of instruments are required by teachers to carry out reading skill assessments in Indonesian language lessons in elementary schools? (2) How are assessment instruments that are appropriate for assessing reading skills in Indonesian language lessons in elementary school developed? (3) Does the developed assessment instrument for reading skills in Indonesian language lessons in elementary school have validity, reliability, and is easy to use? The purpose of this study is to (1) analyze the needs of elementary school teachers related to reading assessment instruments, (2) develop reading assessment instruments that are suitable for teachers, and (3) carry out processes of validation, reliability, and usability of the developed instruments [34].

2 Method

This study is categorized as research and development also known as the development of instruction programs [35]. According to [53], research and development is a process of developing and validating educational products. The research steps are (1) conducting a study of the product to be developed, (2) developing the product based on the study

result, (3) conducting field testing according to where the product will be used, and (4) reviewing the decisions obtained from field trials. Research and development of the model include (1) initial research and data collection, (2) design, (3) initial product development, (4) initial field testing, (5) revision of primary product, (6) field testing, (7) refinement, (8) further field testing, (9) final result refinement, and (10) dissemination and implementation.

The study covered three phases, namely (1) the needs analysis phase, (2) the design and development phase, and (3) the implementation and evaluation phase. The three phases refer to the process of designing teaching models see also done. The model [54] includes ten steps, namely: (1) setting learning objectives, (2) conducting learning analysis, (3) identifying student entry behavior and characteristics, (4) writing behavioral objectives, (5) developing exam criteria, (6) developing learning strategies, (7) developing and selecting learning materials, (8) conducting formative evaluations, (9) re-examining and revising learning, and (10) designing and conducting summative evaluations.

The study was conducted in five elementary schools in Banda Aceh involving the principal, fifth-grade teachers, and fifth-grade students. The needs analysis phase (initial study) selected three elementary schools as the study sites. Interviews with fifth-grade teachers and principals in each school were conducted to obtain data on teacher needs related to reading skill assessment instruments. Learning observations involved fifth-grade teachers and students. The study's first phase was also conducted in one of the three schools to complete the interview data.

In the second phase, the development of reading skill assessment instruments was carried out by referring to the result of the study's first phase. A total of five experts and users were involved in the development of four creative reading skill assessment instruments in order to obtain information on the validity and reliability of the instrument. In the third phase, small group trials were conducted after all instrument that the experts and users evaluated was reviewed, revised, and refined. Based on the small group evaluation result, the instruments eligible for the large group evaluation, which involved a teacher and the entire class, could be determined. The data collection process based on the study phase, study participants, study site, and activities is shown in Table 1.

Stage of Study	Subject	Data Collection Technique
Needs Analysis	Teachers and grade 5 students of SDN 16, 19 and 69 Banda Aceh	Interview Class
Design and Development	Experts in Reading Experts in Reading Lessons Experts in Curriculum Grade 5 Teachers and Students (users)	Document Analysis
Implementation and	Grade 5 Teacher and eight students of SDN 14 Banda Aceh	Observation Interview

Table 1. Data Collection Process Based on Study Stages

3 Results and Discussion

The result of this study refers to the data from the first phase of the study, i.e., needs analysis, the second phase, i.e., instrument design and development, and the third phase, i.e., implementation and evaluation. These three phases are interrelated, i.e., the data from the first phase of the study is the basis for carrying out the second phase, and the data from the second phase of the study is the basis for carrying out the third phase [36] The result of the third phase is used to determine whether the developed creative reading assessment instruments have met the requirements and could be used by teachers for assessments and creative reading lessons in higher grades of elementary schools.

The result of the first phase of the study shows that (1) teachers have never developed an instrument for reading assessment that meets the validity and reliability requirements, (2) developing an assessment instrument is challenging and time-consuming [37], (3) reading assessment is commonly conducted by answering questions from the text, (4) teachers need assessment instruments for various types of reading skills, and (5) creative reading assessment instruments in higher grades in elementary school are preferred because they are directly related to high-level thinking skills (Higher Order of Thinking Skill or HOTS), i.e., the ability to think critically, logically, reflectively, metacognitively, and creatively. This condition is in line with the 2013 curriculum which requires students to have the ability to create [30]. Therefore, the creative reading assessment instrument's development in this study conforms with the teacher's needs and follows the 2013 elementary school curriculum [38].

Four creative reading assessment instruments, prototype 1, were developed in the second phase. The four instruments were (1) *Converting Narrative Text into Dialogue Text*, (2) *Writing Bull's Eye Questions*, (3) *Listing things that are seen, heard, and felt after reading a text, and* (4) *Rearranging irregular procedural texts*. Next, five experts, five teachers, and twelve fifth-grade students as users were involved in the instrument evaluation. The instruments that experts and users evaluated were then known as prototype 2.

The third phase includes the implementation and evaluation in small and large groups. The small group evaluation at the State Elementary School 14 Banda Aceh involved the fifth-grade teacher and eight fifth-grade students. The small group evaluated the four instruments and revealed that the two instruments did not meet the requirements based on the student's average scores from the two assessment instruments. This data agrees with the expert and user evaluation, i.e., the first instrument (*Converting Narrative Text into Dialogue Text*) and the second one (*Writing Bull's Eye Questions*) consists of text and questions that are relatively difficult for fifth-grade students. However, according to experts and users, the small group evaluation result is more accurate and appropriate to determine whether the first and second instruments are suitable for fifth graders. Meanwhile, the third (*Listing things that are seen, heard, and felt after reading a text*) and fourth instrument (*Rearranging an irregular procedural text*) met the feasibility standard developed in this study [39]. Therefore, the third and fourth creative reading assessment instruments continued to be evaluated in an actual class or large group.

The large group implementation and evaluation were carried out at the Al Azhar Cairo Islamic Elementary School, Banda Aceh, involving the fifth-grade teacher and 23 fifth-grade students (one entire class). The evaluation shows that the student's scores

after being assessed using the two instruments varied and met all marking categories, i.e., excellent, good, sufficient, and required guidance. The evaluation result indicates that both instruments are (1) feasible for students to carry out by following the instrument's procedure, (2) suitable to the student's level of thinking, (3) meet discriminatory standards, and (4) allow readers to provide various responses regarding the text. Interviews with teachers during the evaluation process shows that both instruments conform with elementary school higher grade reading lesson, fulfills the teachers' needs, follows the assessment objectives, and accommodate the HOTS demands based on the 2013 curriculum [40]. Thus, both creative reading assessment instruments are suitable for the teacher and user's needs and follow the needs analysis result conducted in the study's first phase.

4 Conclusion

Several things must be considered in developing an instrument (product) for learning or other purposes. First, the views of the parties who will use the developed product. Second, the products developed should be suitable to the user's needs. Third, the products developed should be evaluated by experts and users. Fourth, after being evaluated by experts and users, the product needs to be re-examined and refined based on the evaluators' views, comments, and suggestions. Fifth, the product needs to be further evaluated in actual conditions involving users and then refined to produce a final product.

Two creative reading assessment instruments, the final product of this study, were developed by referring to the Indonesian elementary school curriculum. The text used in the instrument is not sourced from school textbooks. However, experts in curriculum and elementary-level Indonesian language lessons and teachers who used the instrument during the small and large group evaluation stated that the text conforms with the basic competencies and students' abilities. It shows that the development of learning instruments must follow the user's needs, refer to the curriculum, be suitable to the student's abilities, measure learning objectives, easy to use, and allow for adjustments based on the needs and objectives of the assessment. The creative reading assessment instruments, the final product of this study, can be used by teachers for assessment purposes and can also be used for reading lessons by changing and adjusting certain aspects of the instruments.

References

- Chappuis, J., Stiggins, R. Chappuis, S., Arter, J. (2012). Classroom assessment for student learning: Doing it right-using it well. ETS Assessment Training Institute, Portland, OR www. ets.org/ati800.480.3060
- AirAsian, P. W & Russell, Michael K. (2008). Classroom Assessment: Concepts and Applications (Sixth Edition). New York: McGraw-Hill Higher Education.
- Johnson, Sandra. (2012). Assessing Learning in the Primary Classroom. New York: Routledge.
- 4. Salvia, John; Ysseldyke, James E; and Witmer, Sara. 2017. Assessment in Special and Inclusive Education. Boston, MA: Cengage Learning.
- Cooper, Hillary; Elton-Chalcraft, Sally (Eds.). (2018). Professional Studies in Primary Education. California: SAGE Publications Ltd.

- 6. Klenowski, Val. (2012). Sustaining Teacher Professionalism in the Context of Standards Referenced Assessment Reform. In A. Luke, A. Woods & K. Weir (Eds.), Curriculum, Syllabus Design and Equity: A Primer and Model (pp. 88-102). Hoboken: Routledge.
- 7. Scarino, Angela dan Liddicoat, Anthony J. (2009). Teaching and Learning Languages A Guide. Australia: Curriculum Corporation. www.tllg.unisa.edu.au
- Kizlik, Bob. (2012). "Measurement, Assessment, and Evaluation in Education." https://drjj. uitm.edu.my/DRJJ/OBEFSG_Dec07/OBEJan2010/ Donaldson, Graham. (2015). Successful Futures: Independent Review of Curriculum and Assessment Arrangements in Wales. https:// gov.wales/sites/.
- 9. Wiliam, D. (2011). What is assessment for learning? Studies in Educational Evaluation Journal homepage: www.elsevier.com/stueduc
- 10. Liljedahl, Peter. (2010). "The Four Purposes of Assessment." *peterliljedahl.com > wp-content* > *uploads > Four-Purposes-of-Assessment1*.
- 11. Pellegrino, J. W. (2010). The Design of an Assessment System for the Race to the Top: A Learning Sciences Perspective on Issues of Growth and Measurement. Princeton: Educational Testing Service
- 12. 13. Klenowski, Val & Wyatt-Smith, Claire. (2012). The impact of high stakes testing: The Australian story. Assessment in Education: Principles, Policy & Practice, 19(1), 65-79.
- 13. 14. Bell, Sherry Mee dan McCallum R. Steve. (2008). Handbook of Reading Assessment. Boston: Pearson Education
- Earl, L. (2006). Rethinking Classroom Assessment with Purpose in Mind. Winnipeg: Manitoba Education, Citizenship and Youth.
- 15. Popham, W. J. (2009). Instruction that up measures up. Virginia: ASCD. The Perfect Assessment System. Alexandria: ASCD.
- Yarmi, Gusti. (2008). Pendekatan dan Strategi Pembelajaran Bahasa dan Sastra Indonesia di Sekolah Dasar. Jurnal Pendidikan Penabur No.11/Tahun ke-7/ Desember 2008.
- 17. Kuntarto, Eko. (2013). Modul Kuliah Calistung Membaca, Menulis, Berhitung. Program Studi PGSD FKIP Universitas Jambi. https://www.academia.edu/33654184/
- 19. Morris, Darrell. (2014). Diagnosis and Correction of Reading Problems. (Second Edition).
 New York: The Guilford Press.
- 20. Adler, Mortimer J. & Doren, Charles Van. (2014). How to Read a Book the Classic Guide to Intelligent Reading. New York: A Division of Simon & Schuster Inc.Afflerbach, P. (2012). Understanding and using reading assessment, K-12 (2nd ed.). Barksdale Road, Newark: ASCD and the International Literacy Association.
- 21. Alamsyah, Teuku. (2021). Development of Reading Proficiency Estimation Instruments in Primary School Indonesian Learning. Thesis, Universiti Pendidikan Sultan Idris, Perak, Malaysia. Unpublished.
- Anderson Lorin W. & Krathwohl, David R. (Eds.). (2017). Kerangka Landasan Pembelajaran, Pengajaran, dan Asesmen Revisi Taksonomi Pendidikan Bloom (Agung Prihantoro, Penterjemah). Yogyakarta: Pustaka Pelajar.
- 22. Yurdakal, Ibrahim Halil. (2018). The effects of creative reading practices on the primary school 4th graders' improving reading and the skills of creative thinking. (Unpublished doctorate dissertation). Pamukkale University, Denizli, Turkey.
- Maxwell, M., Stobaugh, R., & Tassell, J. H. (2017). Student engagement. In Realworld learning for elementary schools: Digital tools and practical strategies for successful implementation. Bloomington, IN: Solution Tree. ISBN: 9781943874514.
- 24. 25. Yurdakal, Ibrahim Halil. (2019). "Examination of Correlation between Attitude towards Reading and Perception of Creative Reading." European Journal of Educational Research 8(2), 443-452.
- Afflerbach, P. (2016). "Reading Assessment: Loking Ahead." The Reading Teacher Vol. 69 Issue 4 pp. 413–419 January/February 2016.

- International Dyslexia Association (IDA) (2009). Testing and evaluation. https://dyslexiaida. org/ Center for Assessment and Research, James Madison University. (2014). The Programme Assessment Support Services. https://www.jmu.edu/assessment/
- 27. Covacevich, Catalina. (2014). *How to select an instrument for assessing student learning*. Inter-American Development Bank Education Division (SCL/EDU).
- 28. Rahim, Farida. (2008). Reading Study Group. (2002). Reading for Understanding: Toward a research and Development Program in Reading Comprehension. Santa Monica: Office of Education Research and Improvement.
- Basuki, Imam Agus. (2011). Kemampuan Membaca Pemahaman Siswa Kelas IV SD Berdasarkan Tes Internasional dan Tes Lokal. Jurnal Bahasa dan Seni, Tahun 39, Nomor 2, Agustus 2011.
- Mullis, I.V.S. (2007). PIRLS 2006 Assessment Frame work and Specification Progress in International Reading Literacy Study 2nd Edition. TIMSS & PIRLS International Study Center Lynch School of Education Boston College Chestnut Hill, MA 02467 United States
- Gumono. (2014). Profil Kemampuan Membaca Peserta Didik Sekolah Dasar di Provinsi Bengkulu. Lentera Pendidikan, Vol. 17 No. 2 Desember 2014: 201–211 https://media.neliti. com/.
- Suryaman, Maman. (2015). Analisis Hasil Belajar Peserta Didik dalam Literasi Membaca Melalui Studi Internasional (PIRLS) 2011. Litera, Volume 14, Nomor 1, April 2015. https://www.researchgate.net/
- 33. Mullis, I.V.S., et.al. (2012). PIRLS 2011 Assessment Framework. TIMMS & PIRLS International Study Center. Amsterdam: International Association for the Evaluation of Educational Achievement (IEA).
- 34. Umam, A. K. (2014). Pemahaman membaca siswa SD di Indonesia masih rendah. http://www.ugm.ac.id/id/berita/8593/
- 35. Pusat Penilaian Pendidikan Kemendikbud. (2016). Indonesian National Assessment Program. Jakarta: Kementerian Pendidikan dan Kebudayaan.
- 36. Harjono, Nyoto. (2012). Evaluation of Active Student Learning in Indonesian Language Subjects Grade 5 Elementary School. Verse: Journal of Indonesian Language and Literature Education, 1 (1) (2012. https://journal.unnes.ac.id/.
- 37. Kamiludin, K., & Suryaman, M. (2017). Problematika pada pelaksanaan penilaian pembelajaran Kurikulum 2013. Jurnal Prima Edukasia, 5(1), 58–67. http://dx.doi.org/.
- 38. Rasidi, Muhamad Ahyar dan Setiawati, Farida Agus. (2015). Faktor-faktor Kesulitan Guru pada Pembelajaran Tematik-Integratif di Sekolah Dasar Kota Mataram. Jurnal Prima Edukasia Volume 3 Nomor 2, Juli 2015, (155 165) http://journal.uny.ac.id/
- 39. Sugiyono. (2016). Quantitative, Qualitative and R&D Research Methods.Bandung:PT Alfabeta. Creswell, John W. (2014). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches*. California: SagePublications.
- 40. 41. York: Longman.Dick, Walter; Carey, Lou & Carey, James O. (2009). The Systematic Design of Instruction. New Jersey: Pearson.

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