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An Examination of At-Risk College Freshmen’s Expository Literacy Skills Using Interactive Online Writing Activities

This qualitative study focused on at-risk college freshmen’s ability to read and write expository text using game-like, online expository writing activities. These activities required participants to write descriptions of a target object so that peers could guess what the object was, after which they were given the results of those guesses as feedback on their writing. Findings suggested that these online writing activities can improve at-risk students’ expository literacy skills. Specifically, findings emphasized the importance of the writers’ description of salient features and word choice when writing for an online (distant) reader, and the importance of knowing the audience they are addressing. The participants’ feedback concerning how and why they made a particular choice may provide a lens to view how at-risk readers utilize and apply reading strategies. Further research is recommended to determine if the reading behaviors of at-risk students can be better understood by examining the rationale described in the feedback.

There is an ongoing need to create educational settings that address the cognitive, social, and emotional needs of at-risk college freshmen who have limited literacy skills. The need for developmental reading instruction is widespread and affects most higher education institutions, disproportionately affecting...
historically underserved populations including low-income, first-generation, and minority students (Green, 2006; McDonough, 1997). Further, there is a need for systematic research that provides reliable results about interventions in order to inform and guide educators’ practice. According to the National Center for Education Statistics (2011), 36.2% of students entering American colleges and universities require at least one developmental course and 48% did not meet the reading benchmark for college readiness (ACT, 2010). The cost of remediation at the college level is estimated at a staggering $3.7 billion a year (Wise, 2009). As the research suggests, there is an urgent need to address this issue where a significant number of high school students graduate without the necessary skills to succeed at college-level work. Specifically, attention needs to be paid to the development of higher order reading, writing, and critical thinking skills required to tackle today’s ever increasing literacy demands.

This study focused on the ability to read and write expository text, the genre that is generally understood to constitute the majority of college-based reading. Specific skills and strategies are required in order to be an effective and proficient reader and writer within this genre, including knowledge of text structure (Flood, Lapp, & Farnan, 1986; Gunning, 2010). There are several types of expository text structures that serve to organize the material, and the most common are often identified as time sequence, description, explanation/process, comparison-contrast, problem-solution, and cause and effect (Gunning, 2010). This study focused on the ability to comprehend and compose descriptive writing. Descriptive writing is defined as the author’s ability to list characteristics, features, and examples to describe the salient features of the selected topic (Blasingame & Bushman, 2005; Tompkins, 2005). This skill is particularly important in today’s society where the increased use of online technology heightens the need to understand expository writing because in an online environment the selection of words to create a visual representation is essential to the reader’s understanding. Therefore, writers must use appropriate descriptive language to get their message across, using words that would allow the reader to interpret the author’s message.

This study builds on previous work done by the authors in which a game-like, online expository writing activity was used to help preservice teachers develop descriptive writing skills (Wilder & Mongillo, 2007). Specifically, the activity required participants to write descriptions of a target object in such a way that peers could guess what it is, and then to use the results of those guesses as feedback on their writing. This repeated feedback was shown to help participants hone their descriptive
writing. The purpose of the current study was to examine the effectiveness of this interactive expository writing activity to help college freshmen in developmental reading courses improve expository literacy skills.

Theoretical Framework

This study was grounded theoretically in a social constructivist perspective of learning, which posits that learning is situated in social contexts (Vygotsky, 1978). In addition, New Literacies Studies literature (e.g., Cope & Kalantzis, 2009; Lankshear & Knobel, 2006; Leu, Kinzer, Coiro, & Cammack, 2004; Street, 2003) suggests that literacy development is contingent upon learners’ sense that the task is authentic, where they are reading and writing for a purpose they understand, such as responding to a question or communicating with a “real” person. Lankshear and Knobel (2006) defined New Literacies as “socially recognized ways of generating, communicating and negotiating meaningful content through the medium of encoded text within contexts of participation in Discourses or as members of Discourses” (p. 64). These Discourses (Gee, 1999) are inclusive of the ways one acts, speaks, and behaves as well as reads and writes within communities. This study situated students in a context where they had the opportunity to read and write descriptive text for an authentic purpose mediated by new digital technology (online discussion threads).

In addition, this study was based on research by Yule (1997) and others, which suggested that repeated referential communication tasks can help subjects strengthen their communication patterns. Referential communication tasks were designed to examine the communicator's (speaker's) ability to perform two types of informational analysis as part of perspective-taking communication (Rijlaarsdam et al., 2009). The first is to be able to describe or define the characteristics or attributes of a referent item (e.g., a pattern, object, or color) in such a way that it can be distinguished from similar nonreferent items. The second is to be able to take the listener's background, current knowledge, and ability into account and adjust the communication, accordingly and in particular, to use the listener's performance on specific tasks as feedback to improve future communications. A number of studies have found that referential communication, when applied to writing instruction, can be used to foster improved awareness of audience/reader (Rijlaarsdam et al., 2009).

This study also made use of online technologies as the communication medium. Online technologies have been used successfully in more general writing instruction such as Online Writing Labs (OWLs) (Palmquist, 2003) and writing courses. The technology makes the composition, review, and revision processes much easier, and it also provides a way for
students to share their writing with a wider audience and use the feedback to gain a more accurate understanding of their intended audience (Blair, 2003). Writers' understandings of their audience is a necessary and fundamental element of effective writing. Additionally, the interactivity afforded by online writing can provide authentic and stimulating motivation for writers who might have previously been disenfranchised or disengaged as potential writers. Many students who are disinterested in school-based literacy are proficient users of multiple technologies, and the use of these technologies requires them to be problem solvers and strategic thinkers (Anstey & Bull, 2006); therefore, it behooves us to tap into these skills and find ways to link them to school-based literacies.

Rosenblatt’s (1938/1995, 1978) transactional reader response theory supported the notion that readers and writers benefit from peer feedback. According to Rosenblatt, the reader constructs meaning of text through a transactional process, which draws on the individual's background and prior knowledge. Through transaction with the text, the words evoke for the reader "sensations, images, objects, ideas, relationships, with the particular associations or feeling-tones created by his past experiences with them in actual life" (1978, p. 11). Through the shared responses (i.e., participants' guesses and feedback), new ideas and perspectives are learned from one another over time in what becomes a developmental process. As the participants in this study read and responded to their peers' descriptions, they had the opportunity to see the object through another lens and either confirm or disconfirm their original guess or idea. In this way, it was a developmental process where the participants learned from one another in a social, collaborative environment.

Kucer (2009) also stressed the importance of the reader-text-writer transaction. He suggested that when communication breaks down between the reader and writer, it may not be because either one of them is not proficient: “Because communication is a two-way process, it is necessary to examine the contributions of both individuals to any meaning-making event” (p. 107). The intervention studied here required that the participants both read and write for a specific purpose and audience, where understanding the perspective of each was a critical factor.

In a recent study (Larson, 2009), transactional reader response theory and New Literacies Studies were merged when an online asynchronous discussion board facilitated reader response activities. Larson found that this activity encouraged idea sharing and exposure to multiple and diverse perspectives. Larson also found that, contrary to traditional classroom discussions, the design of the asynchronous online discussion allowed time for careful reading of the responses posted by peers and ample time to write thoughtful responses. In this type of activity, “read-
ing and writing interact, or function reciprocally” (Leki, 2001, p. 184).

Spivey (1990) discussed the reciprocal nature of reading and writing stating that “readers and writers...construct meaning from texts through reading and for text through writing” (p. 1). In addition, the construction of meaning is influenced by one's sociocultural background and individual understandings. When students have an opportunity, such as provided in this study, they may collaborate and co-construct meaning (Spivey, 1997) by reading the descriptions of others and attempting to make sense of these descriptions as seen and described through another's perspective.

The following questions guided our investigation: a) how do repeated expository literacy tasks influence participants' ability to compose and comprehend descriptive text?; b) what impact does peer feedback have on the quality of descriptive writing and the participants' ability to make accurate guesses?; and c) how effective is online discussion board technology in facilitating the writing and reading activities?

**Method**

**Participants**

Participants in this study were freshmen at a mid-sized state university who were enrolled in a developmental reading course. The majority (69%) of the participants were from ethnic and/or racial minority and/or non-English-speaking families, from nearby disadvantaged urban school districts. All were in their late teens to early twenties. Of the 28 students enrolled in two sections of the course during the spring 2009 semester, four students were selected as a purposive sample (Plano Clark & Creswell, 2008) based on the following criteria:

- participated in all of the assigned activities that included writing descriptions, reading peer descriptions and making guesses based on those descriptions, completing a modified cloze activity, and writing a descriptive paragraph on a selected topic
- increased their ACCUPLACER® reading comprehension test score by at least 4 points (assessed just prior to and at the end of the semester), as compared to the class average gain of 3.9 points (on a 35-point score), allowing us to look at correlations between the study activities and above-average reading comprehension growth
- earned a passing grade in the course
- demonstrated (reported) that they read peer feedback

Data were collected from a total of 28 students over five weeks from both sections of Basic Reading Instruction (BRI) (The university has since changed the name of this course to College Reading).
The instructors had taught the course for at least two semesters and reported that one major reason they agreed to participate in this study was that they felt the inclusion of these writing activities would supplement an area of need because their primary focus was teaching reading strategies.

Procedures
The writing and reading activities were presented as an online component that was integrated into the class curriculum and completed by the students as part of their homework assignments, which they were able to submit any time over a two-day period, from any internet-connected computer. In weeks 1 and 2, participants wrote descriptions of a target picture for their peers to identify from a picture set of six similar objects. Separate online discussion forums were set up each week in the university's Blackboard® learning management system. After the descriptions were submitted, they were then posted anonymously for peers to read. Each participant read peer descriptions of three different target objects and posted their guesses for the “right one” based on these descriptions. In addition, participants were instructed by their instructor, as well as by email from the researchers, and in announcements posted on Blackboard®, to provide feedback explaining why they made their choice. All guesses were then reposted (again anonymously) in a response thread to each writer’s original description posting. In weeks 3 and 4, participants completed an expository cloze activity where they provided two descriptive words to complete the paragraph. Again, this was done using weekly Blackboard® discussion forums. In this case, peers were given three similar paragraphs to choose from and asked to select the paragraph into which the two words best fit. Again, they were instructed to provide feedback. In the fifth and final week, participants were instructed to write a paragraph about a contemporary news topic (e.g., steroid abuse; hybrid cars) where they were instructed to describe the characteristics without actually mentioning or naming the topic. Peers then guessed the topic based on these descriptions and explained how they arrived at that guess.

Data Sources and Analysis
The participants’ online descriptions and responses were printed and used as a primary data source. Additional data were collected and compared to assure reliability of the emerging patterns through triangulation (Leedy & Ormrod, 2010). Data sources included the transcripts (via Blackboard®) of participant descriptions and responses
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(guesses and feedback). The ACCUPLACER® entrance and exit reading comprehension examination scores were used to select participants for a purposive sample as described above. This test consisted of 35 multiple-choice questions focused on reading comprehension and sentence structure and is used by the university as a precourse placement test and as a postcourse measure for passing the course.

The participants also completed an attitudinal survey (see Appendix A), which was distributed in class at the end of the data collection period. The survey consisted of 12 questions related to the participants' perspectives of the efficacy of the interactive activity. A writing rubric (see Appendix B) that assessed descriptive word choice, feature set, conciseness, and text structure was used to assess the participants' writing samples submitted as part of the activities in weeks 1, 2, and 5. Descriptive word choice was defined as “only uses audience appropriate vocabulary.” Feature set was defined as the ability to “describe all salient features based on prototypical feature set for item with no comparisons to other examples (i.e., could not mention relative position of the target item as a clue).” Conciseness was considered the ability to write without using extraneous details; and text structure was defined as “coherently structured showing ability to accurately list characteristics, features, and details about objects through appropriate use of semantics and syntax.” Another data source was the researchers' reflective field notes (Creswell, 2008) that recorded insights and emerging themes.

Qualitative procedures were used in this inquiry, employing content analysis to systematically identify patterns and themes. Data analysis was ongoing and inductive, employing the constant-comparative method (Corbin & Strauss, 2008) that was used to recursively review the data and identify patterns between and among the data. Participants’ written descriptions and responses were coded and recursively compared to the survey and field notes to identify emerging patterns across sources. Continuous comparisons helped revise codes into discrete patterns that determined themes.

The participants' writing samples were evaluated by three raters and the scores were averaged. The mean for each category was determined based on the assessment of the participants' responses where 0 to 3 points were assigned, 3 being the highest (exceeds expectation), 2 (meets expectation), 1 (below expectation), and 0 the lowest (does not meet expectation). Three raters independently evaluated the data, and in cases of disagreement consensus was reached through discussion.
Results

Effect of Repeated Expository Literacy Tasks on Composition and Comprehension Of Descriptive Text

In order to answer the first research question that asked how repeated expository literacy tasks influence participants’ ability to compose and comprehend descriptive text, we examined all of the participants’ guesses in the five assigned tasks. Findings indicated that the vast majority (89%) of guesses were correct. This result suggested that they were able to comprehend the descriptions written by their peers and make appropriate choices. To better understand the effectiveness of these activities, we systematically analyzed all of the data from four participants, Serena, Jed, Andy, and Jessica (all names are pseudonyms), who were selected based on the purposive sampling criteria mentioned earlier.

Composing descriptive text. First, we examined the frequency in which the four participants’ descriptions of target items were guessed correctly by peers. Totaling the correct responses helped us discern the participants’ ability to use appropriate descriptive language that enabled their peers to identify the correct object. Table 1 provides the frequency of correct peer guesses in the three assigned tasks.

Table 1
Frequency of Correct Guesses by Peers

<table>
<thead>
<tr>
<th>Participant</th>
<th>Task 1: Write a description of a target item (2 trials)</th>
<th>Task 2-CLOZE: Provide 2 words to complete the paragraph (2 trials)</th>
<th>Task 3: Write a concept paragraph (1 trial)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Week 1  n N %</td>
<td>Week 2  n N %</td>
<td>Week 3  n N %</td>
</tr>
<tr>
<td>Serena</td>
<td>2/3 (66)</td>
<td>4/4 (100)</td>
<td>4/4 (100)</td>
</tr>
<tr>
<td>Jed</td>
<td>2/2 (100)</td>
<td>1/2 (50)</td>
<td>3/3 (100)</td>
</tr>
<tr>
<td>Andy</td>
<td>3/3 (100)</td>
<td>4/7 (57)</td>
<td>2/2 (100)</td>
</tr>
<tr>
<td>Jessica</td>
<td>3/3 (100)</td>
<td>2/3 (66)</td>
<td>2/2 (100)</td>
</tr>
<tr>
<td>Total</td>
<td>10/11 (91)</td>
<td>11/16 (69)</td>
<td>11/11(100)</td>
</tr>
</tbody>
</table>

Notes. n = total number of correct guesses by peers. N = total number of guesses.
The findings indicated that the four participants’ descriptions were successfully interpreted by their peers most of the time, scoring 91% overall. Analysis suggested that the descriptions of the most salient features of the target item were most helpful in getting peers to identify the item correctly. We examined the participants’ entries for week 2, where they scored the lowest (69%). Participants were required to describe similar items from picture sets that were more complex than the pictures used in week 1; therefore, it was critical that the writer describe the salient features to help peers identify the appropriate object. For example, in week 1 the objects were simple and commonplace, such as flowers, apples, dogs, and cactuses. However, week 2 objects, which included African masks, Grecian urns, tractors, and moths, were more intricate and less common (see Figure 1). Moreover, the salient features were more difficult to describe, such as the headpiece or ornamentation on the African masks.

**Figure 1**

*African Mask Picture Set*

![Figure 1](http://www.rebirth.co.za)
Analyses of the written descriptions as well as the feedback to these descriptions revealed insights to the participants’ selection process of target items. Serena was the most successful: her description prompted four of four correct guesses. Based on her description of a Greek urn in a set of similar items, it appears that she captured the salient features that helped peers guess correctly. She wrote, “it has three people on it one looks like they have wings.” Two of the six urns had three figures, but Serena distinguished the one she was describing from the others by indicating it had wings. Three of the four respondents mentioned the clue “have wings” in their feedback, a feature that only the target urn had.

Jed was the least (50%) successful in writing the descriptions for the week 2 trial. Jed’s description of the targeted African mask (see Figure 1) did not make mention of the salient features that would have made his mask easier to identify. He wrote, “This mask simply has little squigley [sic] facial hair and has a cut-off mouth feature.” The use of the word “squigley” was descriptive but not particularly helpful or accurate and the same could be said for “cut-off mouth feature.” His inappropriate word choice also caused ambiguity; for example, one respondent said, “I am guessing #4 that is the only one with facial hair…I think not very sure.”

Fifty-seven percent of Andy’s peers guessed the correct target item during week 2. The picture he described was similar to other pictures of moths presented. Andy wrote this description: “The base color of the wings are light beige. The corners of the wings are brown but with spots. The wings look like they have light grey veins.” What Andy called “spots” could have been more accurately described as lacework or webbing, which would have distinguished it from the one that actually had brown spots. Further, all of the pictured moths had light gray veins; however, Andy did not select the salient features that would help his peers distinguish the target item from other moths pictured in the group. Although four of seven did guess correctly, the other three guessers expressed confusion. A peer responded, “I think it’s butterfly 2 or 5 because they both have brown spots and grey veins.” At least four of the pictured moths had wings that were light beige and five had brown corners; therefore, his description did not help peers identify the target item. Another peer replied, “the butterfly that I chose would be butterfly #6 because the description was very brief.” Their feedback demonstrated that the participants were using the descriptive clue words to identify the target item, but they also told the author why his description was not helpful by pointing out that more than one item had both brown spots and gray veins and that the description did not provide enough detail.

The following example also demonstrates how the feedback directly commented on how the writer’s word choice helped peers make a more
informed guess. Jessica's description of an African mask yielded two of three correct guesses. She wrote, “the mask is really big, with big eyes, small mouth, and has a little triangle shape on the top of the head.” Jessica used adjectives (big, small, little, top) to describe each feature of the mask, which may have helped peers make the distinction between masks. Andy's feedback confirms this: “It's mask one. I say this because its [sic] big compared to the others and it has a triangle thing on tope [sic] of its head.”

**Analysis of the participants' writing samples by category.** Analysis showed that each participant demonstrated improvement in each of the four categories. The aggregated scores for the four participants' written descriptions of the target picture items (Tasks 1 and 2) and the final concept paragraph (Task 5) are provided in Table 2.

**Table 2**

*Participants’ Mean Scores on Writing Tasks over Time*

<table>
<thead>
<tr>
<th></th>
<th>Serena</th>
<th>Jed</th>
<th>Jessica</th>
<th>Andy</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Task1</strong></td>
<td>1</td>
<td>2.3</td>
<td>1</td>
<td>2.3</td>
</tr>
<tr>
<td><strong>Task2</strong></td>
<td>2</td>
<td>1.6</td>
<td>2</td>
<td>1.3</td>
</tr>
<tr>
<td><strong>Task5</strong></td>
<td>2.6</td>
<td>2.6</td>
<td>2.6</td>
<td>2.6</td>
</tr>
<tr>
<td><strong>Word Choice</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Feature Set</strong></td>
<td>0</td>
<td>0</td>
<td>0.6</td>
<td>1.3</td>
</tr>
<tr>
<td><strong>Conciseness</strong></td>
<td>2</td>
<td>2.6</td>
<td>2.6</td>
<td>2.3</td>
</tr>
<tr>
<td><strong>Text Structure</strong></td>
<td>1.6</td>
<td>2</td>
<td>2.3</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Overall, the four participants improved in each category over time and met expectations as measured by the rubric in all but the feature set for Task 2. The participants struggled with describing salient features (feature set) in some of the more complex objects; however, they demonstrated improvement by the last task.

The greatest improvement in scores was in the word choice category, which was defined on the rater's rubric as “uses audience-appropriate vocabulary.” Specifically, it is the ability to use understandable and meaningful designations for features and aspects when specific expert terminology is not known or vocabulary is not universal or generally shared (Wilder & Mongillo, 2007). This suggested that the participants
knew their audience and used descriptive words that were meaningful
and accessible to their audience. This result also suggests that partici-
pants became more adept at selecting descriptive words over time. For
example, Jessica scored a 1.5 (below expectation) on word choice for
Task 1, for which she was asked to describe the target flower in a way
that would allow her peers to choose the correct one from a group of
six. Jessica wrote, “the flower has three fully bloomed flowers that are at
the top with many pedals [sic] below.” Although she used accessible and
appropriate descriptive language to describe the target flower (bloomed)
and provided visual cues (top, below), she mistakenly used the word
“pedals” for “petals” in describing the flower.

In Task 2 Jessica was asked to write a description for Mask 1. She
included words that described size (really big, small mouth, little)
shape (triangle), and position (top). These word choices were appropri-
ate and accessible, and she was graded a 2.0. Although this was better
than her description for Task 1, it still lacked specificity and defining
characteristics. Only two of the three peers guessed correctly based on
her description.

For Task 5, Jessica was instructed to write a descriptive paragraph
(without actually mentioning or naming the concept) about steroid
usage. Jessica wrote the following:

The use of this drug has become very popular with many people
playing sports. Many famous baseball players have been caught using
this illegal drug to enhance their body. Many boys think it will make
them stronger and better than all other players. One baseball player
that was recently caught using it was Alex Rodriguez.

The combined score of the three evaluators for this paragraph was 2.2,
and Jessica received a 2.6 for word choice. Illegal steroid use was a cur-
rent topic in the news during this study, and Jessica used her background
knowledge to make connections for her readers. She used meaningful
designations to describe steroid use such as “popular” and “illegal” to
refer to the drug in question. She also used the word “enhance,” which is
associated with steroid use and distinguishes steroids from other popu-
lar drugs. She also associated steroid use with athletic ability by using
words such as “baseball players,” “stronger,” and “better” and capitalized
on one well-publicized case by referring to the baseball player involved
by name. In doing this, Jessica used descriptive language that her audi-
ence would understand as defined in the rubric as “only uses audience
appropriate vocabulary.”

In another example, Serena’s overall score for Task 5 was 2.1 and
her score on word choice was 2.3, an increase in score from those she
received for Task 1, where she scored 1.0. In Task 1, she described one
of six similar apples and wrote, “the apple is not as large as the others and its [sic] not leaning to the side.” The words “large” and “leaning” were descriptive; however, she used comparisons such as “not as large as the others” that were unhelpful because we intentionally rearranged the objects on the screen so that a description could not simply be “the biggest one” or “the one on the top left.” Additionally, the description was too brief and did not mention specific designations to help the reader make a distinction between the target items. However, Serena’s description of the Greek urn in Task 2 was much more descriptive, using audience appropriate vocabulary (looks like they have wings) and meaningful designations (third largest). Her concept paragraph demonstrated her understanding of the topic, and she used a cautionary approach to target her audience:

This can grow your muscles bodybuilders, football players, and weightlifters and other female and male athletes use them. The effects make male gentials [sic] smaller, it can cause outbursts, and acne it can enhance your physical condition and performance. The side effects can imbalance [sic] both male and female hormones.

Serena began by contextualizing (imagining) the audience as potential steroid users (bodybuilders, football players, weightlifters, male and female athletes), which gave readers a hint about the concept. She used terminology and phrases regarding steroid use that were meaningful and familiar, such as “grow your muscles,” “side effects,” and “enhance your physical condition.” Overall, her word choice in the final trial showed that she was capable of conveying a concept through the use of appropriate and meaningful language familiar to her audience, resulting in all of her peers correctly guessing the topic. Over time, the other participants also demonstrated an improvement in descriptive writing skills through the use of more meaningful and audience-appropriate vocabulary.

**Comprehending descriptive text.** The purpose of the modified cloze activity in weeks 3 and 4 was twofold: to check reading comprehension and to analyze descriptive word choice. Results clearly showed (see Table 1) that the participants aptly provided the missing descriptive words for the cloze passages. This result suggested that the participants proficiently read the assigned passages by selecting the correct fill-in words that were provided by the participant. This also suggested that the participants were capable of providing appropriate descriptive words for the cloze passages; however, at times the words provided were not accurate. In these cases, the reader chose the best answer by applying reading strategies that helped them make sense of the passage. An examination of the participants’ feedback when they read peers’ word selections and made guesses gave insights to the reading strategies
used to determine the correct passage. For example, Jessica's task as it appeared on Blackboard® read:

Below are 2 fill-in words that best completes ONE of the paragraphs. Please respond to this message with your guess as to which paragraph you think is the correct one, and explain why you think that?

Fill-in words [provided by peer]: Tallest, driest

Paragraph 1: Nigeria stretches from the _______ grasslands of the north to the _______ rainforests of the south.

Paragraph 2: Nigeria is the most populous country in Africa and it has a very _______ population. The country has a highly developed financial and telecommunications market which makes the _______ economy of Nigeria thrive.

Paragraph 3: Agriculture used to be the principal foreign exchange earner of Nigeria. Today, Nigeria is a _______ exporter of ground-nuts, cocoa, and palm oil and a _______ producer of coconuts, citrus fruits, maize, pearl millet, cassava, yams and sugar cane.

Jessica's response was “The words did not really make sense in any of them for me really, but the one that I [sic] have to say made the most sense was paragraph one. The other two paragraphs did not make sense in any way.” Jessica's comments showed that she may have used context clues to determine the best answer, which suggested that she was constructing meaning, “made the most sense,” by monitoring her comprehension. Jessica may have also used her knowledge of text structure, or syntax, to determine the answer. The fill-in words provided were in the superlative tense, which narrowed the possible choices, hence her remarks.

In another response, Jessica's feedback again pointed to the mental reading strategies used to select the correct answer given the words height and medium as the fill-in words: “it has to be paragraph 1 because the first one [word] makes sense, but the second one had clues as small and larger that gave the word in between away.”

**Paragraph 1**: The approximate weight and density of the bone structure is your body frame. The _______ and thickness of bones vary from person to person. You can determine if you have a small, _______, or large body frame by either measuring the circumference of your wrist or by measuring the size of your elbow.
Jessica's responses for the cloze tasks (3 and 4) demonstrated that she employed metacognitive strategies to monitor reading comprehension by frequently using the phrases “make sense” and “sound right.” The basic principle of reading (Snow, Burns, & Griffin, 1998) is to construct meaning from the text and Jessica did this by asking herself, “Does this make sense and does this sound right?”

**Effect of Peer Feedback on Literacy Skills**

Although the participants' feedback was often limited, it was sufficient for the writer to ascertain if the description helped the participants correctly identify the target item. Their remarks provided some insight into how the readers made decisions. For example, Andy's response to Serena's description of the target apple stated, “I think it's [sic] apple 5 because it seems smaller than the other ones and it doesn't seem to be leaning to any side.” In his remarks, it becomes clear that he read the descriptive clues (smaller, leaning), but he did not find the information sufficient to make a distinction (he guessed the wrong item).

The attitudinal survey contained questions directly related to reading and writing feedback. Participants (27 of 28) reported that they read their peer feedback and found it useful (26% agree; 26% strongly agree; 33% neutral). When asked if making guesses and giving feedback was hard to do, most of the participants disagreed (52% disagree; 7% strongly disagree; 30% neutral), and most agreed (37% agree; 18% strongly agree; 41% neutral) that getting feedback was an important motivation to compose better descriptions that would enable their peers to make correct guesses. Although more than half of the participants found feedback to be an integral part of these activities, it was also clear that a large portion of the survey respondents were neutral or not in agreement. For example, Jessica reported, “It [feedback] helped me know if I needed to put more information or not,” and another student said, “I learned that I needed to have more detail in descriptions.” However, another participant stated, “I read some of them but they didn't really effect [sic] my writing.” One of the reasons for negative or neutral responses may be that the participants did not understand the potential of using peer feedback as a method to improve their writing or to help writers to connect to their intended audience (Blair, 2003).

The majority of the participants agreed (44%) or strongly agreed (22%) that guessing the target item/concept was fun. It was obvious to the classroom instructors and the researchers that most of the participants enjoyed the activities, and because it was presented as a game with prizes (McDonald's gift certificates earned for participation), their overall attitude was cooperative. Findings show that reading
peer feedback may not have played a significant role in improving participants' writing; however (and somewhat surprisingly), reading the descriptions written by peers and having to make guesses based on them may have helped participants become more cognizant (as readers) of the importance of appropriate word choice and description of salient features in facilitating correct interpretations of the descriptions. Signs of this latter effect are seen in both the transcript content analysis and the attitudinal survey. At the same time, responses on the attitudinal survey as well as researcher field notes indicated that participants did find the feedback beneficial and they enjoyed the activity and saw it as a fun way to learn.

**Effect of the Online Discussion Technology in Facilitating the Writing and Reading Activities**

Based on the responses on the survey, 85% of the respondents reported that the technology was not difficult to use. Using threaded discussion made it easy to identify peers' feedback (posted as a response, indented below participants' initial description). Comments such as “easy,” “very user friendly,” and “it was very simple to use” suggest that participants were comfortable using the technology; however, one participant reported that “Blackboard does not let me log in all the time” and another wrote, “It wasn’t hard, but it was hard for me to get on a computer sometimes.” Although it is easy to overgeneralize that this generation of “digital natives” (Prensky, 2001) has anywhere/anytime access to the technology, this may not always be the case for all students.

**Conclusion**

Biancarosa and Snow (2006) reported that nearly six million secondary students read below grade level. The majority of these students graduate high school, and those who enter college are unprepared to succeed, hence the extraordinary need for college developmental reading courses.

This research explored online expository literacy tasks that required students to read and write descriptive text for a specific purpose. Participants were asked to compose descriptive text for the purpose of having peers guess an object or subject. Findings suggested that these online activities improved at-risk students' expository literacy skills in the categories of description of salient features and word choice. When writing in an online environment, it is important that writers not only select appropriate words but also know their audience (Rijlaarsdam et al., 2009). Participants had the opportunity to experience “reader-text-writer transaction” (Kucer, 2009; Rosenblatt, 1938/1995) through their participation in the online activities. By reading peers' responses, the
participants were exposed to diverse and varying viewpoints, which may have helped them to better understand their audience.

Although most participants indicated that peer feedback was important, we found feedback was often limited to responses such as “I think it is number 5.” However, reading the descriptions of others appeared to influence some participants as evidenced in their subsequent writing. This finding is similar to Larson's (2009) in that the online design allowed time for participants to read through peers' responses and consider alternate viewpoints. Further, the time afforded by asynchronously reading online may have fostered the reading-writing connection (Spivey, 1990) where participants constructed meaning both from reading others' descriptions and writing their own. This study also indicates that there is a need for teachers to explain the use and purpose of peer feedback if it is to be an effective learning strategy for students to gain a more accurate understanding of their intended audience (Blair, 2003).

Clearly, a method that attracts this population of struggling readers and writers through an engaging activity is a valuable and much needed learning tool. At-risk readers often disengage when presented with expository text, yet we know that many of them are proficient users of technology, surfing the Internet for information when motivated. Using Blackboard® facilitated this game-like activity, and the participants reported it was easy to use. However, not all students have access to computers and Blackboard®, and as some participants reported, it is not always reliable. Further research that includes using a smartphone application may be more successful in ensuring greater participation, as this is a technology that is being adopted by more and more students.

The online activities outlined in this study can be easily replicated by practitioners to improve expository literacy skills of their students. The activity that requires them to describe objects can be used for any subject or topic. It can be introduced as a game-like activity for extra credit to be completed as homework or as an additional assignment. Content related to the curriculum may be used in these activities to review subject area knowledge, such as those used in the cloze tasks in this study, that include social studies, health, and science. In addition, the cloze activity assesses reading comprehension.

The use of technology provides an alternate method for struggling and disinterested students to practice reading and writing tasks. The game-like activities may engage students who often find reading and writing expository text both boring and difficult. The instructors reported that this was a useful intervention to target strategies that utilize the
connection between reading and writing (Spivey, 1997) particularly because class time was limited and predominantly focused on teaching reading strategies.

We found that the participants’ explanations of why they made their choices were insightful and gave hints regarding the ways in which they constructed meaning. Participants discussed what made sense to them, which reflected thinking patterns. Future research should be done to determine if the activities used in this study can serve as a lens to examine students’ reading and writing behaviors and strategies. It goes without saying that we must make use of current technology to improve the critical skills needed to effectively comprehend and disseminate information across time and space and in multiple settings; however, more research such as this, with larger populations and over a longer period of time, is needed to ensure that technology classroom instruction and curricula integration is done effectively.

References


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Appendix A

Student Attitudinal Survey

Please answer the following 12 questions (front and back) indicating whether you agree or disagree with the statement by marking an “X” in the appropriate box. Feel free to add comments as well.

1. **Guessing the target item/concept was fun.**
   - [ ] Strongly Agree
   - [ ] Agree
   - [ ] Neutral
   - [ ] Disagree
   - [ ] Strongly Disagree

   Comments: 

2. **I always read my peers' guesses and feedback. If so, did the feedback guesses from others based on your descriptions help you write better. If not please explain why you didn't read them.**
   - [ ] Strongly Agree
   - [ ] Agree
   - [ ] Neutral
   - [ ] Disagree
   - [ ] Strongly Disagree

   Comments: 

3. **It was hard to make guesses and give feedback on others' descriptions.**
   - [ ] Strongly Agree
   - [ ] Agree
   - [ ] Neutral
   - [ ] Disagree
   - [ ] Strongly Disagree

   Comments:
4. **Reading others' descriptions helped me write better.**

   - [ ] Strongly Agree
   - [ ] Agree
   - [ ] Neutral
   - [ ] Disagree
   - [ ] Strongly Disagree

   *Comments:*

5. **The technology (Blackboard discussion board) was hard to use.**

   - [ ] Strongly Agree
   - [ ] Agree
   - [ ] Neutral
   - [ ] Disagree
   - [ ] Strongly Disagree

   *Comments:*

6. **This would be a good way to teach students how to write descriptions.**

   - [ ] Strongly Agree
   - [ ] Agree
   - [ ] Neutral
   - [ ] Disagree
   - [ ] Strongly Disagree

   *Comments:*

7. **Writing online descriptions was easy.**

   - [ ] Strongly Agree
   - [ ] Agree
   - [ ] Neutral
   - [ ] Disagree
   - [ ] Strongly Disagree

   *Comments:*
8. Getting feedback was an important motivation.
   [ ] Strongly Agree  [ ] Agree  [ ] Neutral  [ ] Disagree  [ ] Strongly Disagree
   Comments:

9. Doing the pictures and fill-in tasks first made writing the concept paragraph in Week 5 easier.
   [ ] Strongly Agree  [ ] Agree  [ ] Neutral  [ ] Disagree  [ ] Strongly Disagree
   Comments:

10. Which week's writing activity was the hardest?

11. Which week's writing activity was the easiest?

12. Any other comments?

Name: ____________________________________________________________

Thank you for your participation!
# Appendix B

## Scoring Rubric Used by Raters

<table>
<thead>
<tr>
<th></th>
<th>Exceeds expectation (3)</th>
<th>Meets expectation (2)</th>
<th>Below expectation (1)</th>
<th>Does not meet expectation (0)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Descriptive Word Choice</strong></td>
<td>Only uses audience appropriate vocabulary</td>
<td>Frequently uses audience appropriate vocabulary</td>
<td>Infrequently (one or two) uses audience appropriate vocabulary</td>
<td>Only uses vocabulary that is not audience appropriate</td>
</tr>
<tr>
<td><strong>Feature Set</strong></td>
<td>Describes all salient features based on prototypical feature set for item with no comparisons to other examples</td>
<td>Describes most of the salient features based on prototypical feature set for item with no comparisons to other examples</td>
<td>Describes only one or two of the salient features based on prototypical feature set for item with no comparisons to other examples</td>
<td>Uses no salient features OR uses comparisons with other examples to describe selected item</td>
</tr>
<tr>
<td><strong>Conciseness</strong></td>
<td>With no extraneous details</td>
<td>With one or two extraneous details</td>
<td>With three or more extraneous details</td>
<td>Only gives extraneous details</td>
</tr>
<tr>
<td><strong>Text Structure</strong></td>
<td>Text is coherently structured showing ability to accurately list characteristics, features, and details about objects through appropriate use of semantics and syntax</td>
<td>Text has a mostly consistent coherent structure with main ideas and supporting details</td>
<td>Text has minimal consistent coherent structure with main ideas and supporting details</td>
<td>Text has no consistent coherent structure with main ideas and supporting details</td>
</tr>
</tbody>
</table>