

# Cognitive Rigor: Augmenting Writing Skills in the EFL Classroom

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#### Abstract

Recently, educators have called for raising the expectation of students' learning through teaching more rigorous knowledge and skills. For defining and describing rigor, a cognitive rigor (CR) matrix was used in the present study to augment 12 tertiary, female, Saudi students' non-fiction writing skills in terms of organization, development, cohesion/coherence, structure, vocabulary and mechanics. The quasi-experimental design was employed using one experimental group (EG) and one control group (CG). Both groups were pre-tested and post-tested in writing a non-fiction essay. The Mann-Whitney U test demonstrated that there were statistically significant differences between the mean ranks of the EG and those of the CG on the post-test favoring the former. **Keywords:** Bloom's Taxonomy, Depth of Knowledge, cognitive rigor matrix, non-fiction, writing skills

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#### 1. Introduction

"It is time to expect more from our students," (Barack Obama, 2009).

Writing is a dynamic component of students' literacy achievement, and it is a critical communication tool for them to convey opinions, describe ideas, and analyze information. Besides, in this modern hi-tech world, writing is a skill that plays an increasingly important role in success across academic and professional disciplines; word processing and other forms of electronic communication help students learn and practice writing in and out of the classroom. Consequently, the nature of writing and writing instruction is changing. That is, there is a paradigm shift in writing instruction which includes integrated interventions that involve many complementary instructional practices.

However, research piloted in the Arab world showed that EFL learners suffer from poor performance complications and low proficiency level in writing skills (Rababah, 2003; Al-Jarf, 2007; Bacha, 2010; Ezza, 2010; Javid, & Umer, 2014). Alnufaie and Grenfell (2012), for example, conducted a study to investigate the writing strategies of 121 second-year, undergraduate Saudi students who were studying EFL in Jubail Industrial College (JIC). The writing strategies under investigation were process-oriented and product-oriented. Findings showed that 95.9% of the participants missed the two kinds of strategies.

Grami (2010) cited the results of IELTS test report of Saudi students, which revealed that they scored comparatively low in all English language skills (5.17, 4.97, 5.81 out of 9 in listening, reading and speaking respectively) but the average in writing skills was the lowest (4.83 out of 9). Al-Nofal, (2003) comprehended that when Saudi students write essays, they are generally concerned with surface aspects such as spelling, choosing vocabulary and correcting grammatical mistakes.

Al-Samadani (2010) views writing as a complex process in teaching and learning as it requires knowledge of grammar, vocabulary, writing mechanics (e.g., punctuation & capitalization), organizational skills, style, and imagination. Fageeh (2011) claimed that, "many EFL learners heavily rely on writing as integral skill to language learning" p. 31, as supported by much research that view learners' listening, speaking and reading skills mainly depend on writing competence (e.g., Al-Ghamari, 2004; Hinkel, 2004).

The release of A Nation at Risk (1983) aroused the debate about the quality of American schools. With the adoption of No Child Left Behind (2001), governors used the word "rigorous" as the adjective to describe a desired type of education. Former President George W. Bush used the term in his 2006 State of the Union Address, "We need ... to make sure those courses are rigorous enough to compete with other nations". From presidents to principals, governors to teachers, everybody tried to be either promising rigor, demanding rigor, or deploring the lack of rigor. It was concluded that academic rigor is an important part of providing the next generation with the knowledge and skills necessary to succeed in education and career.

#### 2. Theoretical Background

Literally, *rigor* refers to "the quality of being severe or strict" while *rigor mortis* is "the process by which the body becomes stiff after death" (Oxford Advanced Learner's Dictionary, 1999, p. 1013). According to this definition, people may equate *rigor* with pain, rigid thinking, and harshness. Its association in *rigor mortis* gives the impression that students must suffer, as the curriculum must be narrow and deadly dull.

Yet, educationally, rigor seems to be the opposite of the dictionary meaning. With non-rigorous learning, errors are more likely to occur. Rigor is not assigning more homework. It is assigning better homework, open-



ended work that pushes students to think in multiple ways about the tasks, and provides constructive feedback on their efforts – plus permission to edit, test prototypes, and make multiple drafts. Most important, the teacher will not accept work that is less than the students' best effort.

On May 5, 2005, the North Carolina State Board of Education (NCSBoE) passed into law High Student Performance Bill F16 requiring that all students graduate from a rigorous academic program that equips them with the knowledge, skills, and dispositions necessary to succeed in both postsecondary education and 21<sup>st</sup>-century careers. It recommended the following:

- Academic rigor is based on established expectations that ensure that all students develop the capacity to master content that is complex and challenging.
- In every subject, at every grade level, instruction and learning must include commitment to a knowledge core and application of that knowledge core to solve complex and real-world problems.
- A rigorous course is a course that examines details, insists on diligent and scrupulous study and performance, and does not settle for a mild or informal contact with the key ideas. It focuses on skills that students will be expected to master rather than just the content they will memorize.

To sum up, academic rigor is an essential characteristic of effective curriculum, instruction, and assessment. When they are challenged, students learn to use the full range of their talents and intellectual abilities to address authentic and complex academic tasks in professional and real-life events. Academic rigor is commonly thought of in terms of three different phases in the educational process. The first is setting the standard for students; the second is equipping students through instructional and supportive methods; and the third is student demonstration of achievement. Those three phases were popularized by Barbara Blackburn's 2008 book *Rigorous Schools and Classrooms: Leading the Way.* She defined rigor as, "creating an environment in which each student is expected to learn at high levels, each student is supported so he or she can learn at high levels, and each student demonstrates learning at high levels." Consequently, Williamson (2012) divides this definition into:

Part I – Expecting students to learn at high levels; rigorous education begins with a belief that each student has the potential to be her or his best, no matter what.

Part II – Supporting students to learn at high levels; as students move to more challenging work, there is simultaneous *scaffolding* to support students. Students are not left on their own to succeed.

Part III – Ensuring students demonstrate learning at high levels; demonstrations of learning mean that instruction is not totally teacher-centered. Students should be provided with opportunities to demonstrate their learning.

To achieve rigorous academic standards, the academic, social, and developmental needs of students must be addressed. Irrespective of student's socio-economic background or educational experience, they get an opportunity to succeed at high levels. Therefore, in a report by Colvin and Jacobs (2009), a rigorous curriculum is "focused, coherent, and appropriately challenging," said William Schmidt, a Michigan State professor who studies the educational practices of countries that surpass the United States on international tests. In this report, the superintendent Jerry D. Weast mentioned that his school achieved "giving students a curriculum that will prepare them to succeed in college or the world of work," p. 3. In non-pretentious terms, students should use content knowledge about a subject to comprehend, apply, analyze, synthesize, and evaluate it. Teachers should create an environment in which each student is supported so he or she can learn at high levels.

Wyatt, Wiley, Camara, and Proestler's study (2012) was an attempt to create an index of academic rigor using self-reported course work data that would assist in providing information on the academic preparation of over one million graduating high school seniors each year. It used the SAT® Questionnaire (SAT-Q) that students completed when registering for the SAT exam to construct an academic rigor index (ARI).

Two widely accepted models for describing academic rigor: the revised Bloom's Taxonomy of Educational Objectives (2001) and Norman Webb's Depth of Knowledge (DOK) model (1997). The former categorizes the cognitive skills required of the brain when faced with a new task as it describes the type of thinking processes necessary to answer a question. The latter, on the other hand, relates more closely to the depth of content understanding and scope of a learning activity, which manifests in the skills required to complete the task from inception to finale (e.g., planning, researching, drawing conclusions). Moreover, the DOK model offers to rethink the meaning of *test alignment* to include both the content assessed in a test item and the depth to which students are expected to demonstrate understanding of that content.

Because no simple one-to-one correspondence relates Bloom's Taxonomy and DOK model, Hess, Jones, Carlock and Walkup (2009) combined both of them. The result was the **cognitive rigor** (CR) matrix, which allowed educators to examine the rigor associated with tasks that might seem at first glance comparable in complexity. Because CR encompasses the complexity of content, the cognitive engagement with that content, and the scope of the planned learning activities, the CR matrix can enhance instructional and assessment practices at the classroom level as well. The present study adapted this matrix as a means of determining the emphasis placed on each of its intersections in actual teaching non-fiction essay writing. Then, recognizing CR and analyzing its implications for instruction and assessment, the researchers tried to enhance learning opportunities for the EG



students in an essay-writing course. That is, those treatment students were provided with a wide range of the CR matrix in augmenting their writing skills.

#### 3. Objectives of the study:

In the writing class, to increase CR is to intensify the complexity of a text. A text is complex because of the complexity of ideas, one's confusion in the expression of thoughts (Dougherty, 2015). Focusing on the essential components of the CR matrix, the present study aimed at:

- a. adapting the CR matrix to be used in improving the writing skills identified by Paulus (1999) in his rubrics (Appendix 2) in terms of *organization*, *development*, *cohesion/coherence*, *structure*, *vocabulary* and *mechanics*; and
- b. exploring the effect of using CR on augmenting some non-fiction, writing skills of some EFL students who were involved in a rigorous, essay-writing course.

#### 4. Statement of the Problem

Graduation from college has been associated with a wide variety of positive financial and societal outcomes. Despite several efforts made by stakeholders, syllabus designers, teachers and administrators, the Saudi students face maximum problems in their EFL writing (Al-Hazmi, 2006; Al-Khasawneh, 2010; Al-Samadani, 2010; Ezza, 2010; Grami, 2010). Specifically, at Qassim Private Colleges (QPC), the researchers observed that students did not reach the envisioned writing assessment goals by the end of each semester. That is, students at all levels are required to answer short-essay questions and write compositions which are evaluated by their teachers on the basis of their precision and excellence.

Besides, as it is intensive and comprehensible, the present research used a rigorous course to augment the expectation of some EFL students regarding their non-fiction, writing skills. In simpler terms, the adapted CR matrix was used in respect of what was imparted in addition to how it was communicated and assessed. That is, CR was introduced as an essential characteristic of effective curriculum, instruction, and assessment. Students were challenged to use the full range of their talents and intellectual abilities to address authentic and complex academic tasks writing non-fiction essays. Achieving this, the present study attempted to answer the following research questions:

- 1. How can the CR matrix be adapted for teaching non-fiction, writing skills?
- 2. What is the impact of CR on augmenting the non-fiction writing skills of EFL students?

#### 5. Methodology

#### 5.1 Design:

The research methodology was quasi-experimental, where both quantitative methods were employed for comparing the improvement achieved after the treatment by an experimental group (EG) and a control group (CG). Being adapted to implement rigor in the class, the CR matrix is a scale of cognitive demand (thinking) to align standards with assessments for ensuring that the content of the standard and the level of student demonstration required by that standard matches the assessment items.

### 5.2 Participants:

The sample taken for the study was 29 female students enrolled in Level 4 at the English Department, Qassim Private Colleges, KSA. Those students were distributed randomly in two groups: 12 were assigned to EG, while the other 17 to CG and both of them were taught to write an essay according to non-fiction writing skills (i.e., organization, development, cohesion/coherence, structure, vocabulary and mechanics). Both groups were asked to write an essay at the beginning and at the end of the study. The EG students were interviewed by the end of the study.

#### 5.3 Setting:

During the first semester of the academic year 2017/2018, the experiment lasted for a total of ten weeks of teaching the above-mentioned writing skills. Pre- and post-tests were administered in the form of writing an essay to both groups. Both groups' scores were compared in the pre-test and the post-test.

#### 6. Results and Discussion

The first research question: How can the CR matrix be adapted for teaching non-fiction, writing skills? In 2009, teachers from 200 Nevada and Oklahoma public schools submitted a collection of 200,000 samples of student homework samples, tests, quizzes, and worksheets in mathematics and English language arts for analyzing the preponderance of curricular items aligned to each cell in the CR matrix by Hess, Jones, Carlock and Walkup (2009). The present study made use of this matrix to augment 29 EFL students' non-fiction writing skills. The teacher, the first researcher, was concerned with applying a rigorous atmosphere to one of her two-section, essay-



writing course. She taught a textbook: *Effective Academic Writing 2: The Short Essay*. This course familiarizes students them with forming a paragraph to a short essay in term of the ideas expressed in the introduction, the body and the concluding paragraphs. Focusing on the following will enhance writing skills: journal writing, specialized essays, and paragraph analysis.

Implementing this, the CR matrix was adapted (Appendix 1) for teaching the writing skills aimed at by this course. Originally, the CR matrix consists of 24 cells; namely, 6 levels of the revised Bloom's Taxonomy (horizontally) dichotomized into 4 levels of DOK (vertically). The teacher sorted all the instructional tasks into categories according to the adapted CR matrix; then she focused on items where the major cognitive demand was placed. For 10 weeks, 3 hours each, she taught an essay-writing course for 2 sections (EG and CG). Both groups were given some instructions on how to generate ideas in order to develop different parts of a paragraph and a well-written essay (i.e., topic sentence, an introduction paragraph, major and minor supporting sentences, and the concluding paragraph). For the latter group, she followed the objectives of the course; whereas for the former, she designed her lesson plans and classroom assessments according to the adapted matrix for a greater range of cognitive demand. That is, she provided the EG with challenging tasks and demanding goals, which enhanced both surface and deep learning of content to make sure that they could gain most from the learning opportunities she designed.

According to the 6 levels of the revised Bloom's Taxonomy, in **level 1**, for example, the students were gradually engaged in listing ideas or words as in a brainstorming activity prior to writing composition, or were asked to write simple sentences. In **level 2**, students were engaged in the first draft writing or brief extemporaneous speaking for a limited number of purposes and audiences. Students began to connect ideas using a simple organizational structure. For example, students might be engaged in note-taking, outlining or simple summaries. Text may be limited to one paragraph. In **level 3**, students were engaged in developing compositions that included multiple paragraphs. These compositions included complex sentence structure and demonstrated some synthesis and analysis. Students showed awareness of their audience and purpose through focus, organization and the use of appropriate compositional elements included chronological order in a narrative or including supporting facts and details in an informational report. At this stage, students were engaged in editing and revising to improve the quality of the composition. The last **level 4**, the standard at this level was a multi-paragraph composition that demonstrated synthesis and analysis of complex ideas or themes. There was evidence of deep awareness of purpose and audience.

As the CR matrix is means of analyzing the emphasis placed on each of its intersections, teachers should be skilled at recognizing CR so that they can enhance learning opportunities that covers a wide range of the matrix. According to Dougherty (2015), the most common way to increase rigor in a task depends upon a number of factors like difficult and unfamiliar vocabulary and syntax or complexity of ideas, doubt and confusion in expressing thoughts.

<u>The second research question</u>: What is the impact of CR on augmenting the non-fiction, writing skills of EFL students?

For proving the equivalence between the two groups before the treatment, the students were pre-tested writing a compare-and-contrast essay "My Two Cities". Analysis of the students' essays was based on the Paulus' rubrics (1999) (Appendix 2). Those rubrics were designed to give clear and detailed explanation of writing skills in terms of *organization*, *development*, *cohesion/coherence*, *structure*, *vocabulary* and *mechanics* according to a 1-to-10-point scale. The Mann-Whitney test for small samples where ( $n \le 20$ ) was used to determine the significant differences between the mean ranks of the EG and those of the CG. **Table 1** shows that all the U-values are not significant at 0.05 level, which means that the two groups were equivalent.



Table 1: U Values between the mean ranks of both EG and CG in the pre-test

Writing Skills	Groups	n.	Mean Ranks	Sum of Ranks	U	Sign.
Organization	CG	17	16.97	288.50	68.50	0.097
	EG	12	12.21	146.50		
Development	CG	17	16.18	275.00	82.00	0.312
	EG	12	13.33	160.00		
Coherence/Cohesion	CG	17	14.18	241.00	88.00	0.461
	EG	12	16.17	194.00		
Structure	CG	17	14.62	248.50	95.50	0.739
	EG	12	15.54	186.50		
Vocabulary	CG	17	13.32	226.50	73.50	0.144
, and the second	EG	12	17.38	208.50		
Mechanics	CG	17	13.71	233.00	80.00	0.213
	EG	12	16.83	202.00		
Total	CG	17	14.65	249.00	96.00	0.787
	EG	12	15.50	186.00		

Then, it was crucial to determine whether any improvement in students' writing occurred as a result of being involved in the treatment, so the study sample in both of the EG and CG were post-tested following the same procedures in the pre-test. Table 2 shows that all the U-values are significant at 0.05 level, which means that there were statistically significant differences between the mean ranks of the EG and those of the CG in favor of the former group. In addition, it is also clear that the values of the effect size were larger than 0.15, indicating that the effect size of experimental treatment was significant and contributed to the total variance of writing skills by 79%. Table 2: U Values between the mean ranks of both EG and CG in the post-test

Writing Skills	Groups	n.	Mean Ranks	Sum of Ranks	U	Sign.	eta	Effect Size
Organization	CG	17	19.63	235.50	46.50	0.005	0.53	great
	EG	12	11.74	199.50				
Development	CG	17	20.13	241.50	40.50	0.003	0.55	great
	EG	12	11.38	193.50				
Coherence/Cohesion	CG	17	19.63	235.50	46.50	0.005	0.52	great
	EG	12	11.74	199.50				
Structure	CG	17	20.00	240.00	42.00	0.003	0.55	great
	EG	12	11.47	195.00				
Vocabulary	CG	17	22.88	274.50	7.50	0.001	0.82	great
	EG	12	9.44	160.50				
Mechanics	CG	17	22.38	268.50	13.50	0.001	0.77	great
	EG	12	9.79	166.50	┦ /			
Total	CG	17	23.00	276.00	6.00	0.001	0.79	great
	EG	12	9.35	159.00				

This clearly indicates a major impact of CR on students' non-fiction, writing skills. In accordance of Williamson's division (2012), each student of the treatment group was expected to learn at high levels, was supported in learning at high levels, and had the opportunity to demonstrate learning at high levels. This can be due to the teacher's influence upon students was effective in directing their achievement towards learning objectives. Thompson and Wiliam (2008) confirms that, "teacher quality trumps virtually all other influences on student achievement" p. 2. Therefore, it is rightly said "a qualified teacher has the methodological competence to enable students to develop skills for creativity and understanding" (Ololube, 2006, p. 41).

Referring to **Figure 1** and **Figure 2**, the EG showed a significant rise after the implementation of the CR matrix and the students' scores were satisfactorily good. This can be due to focusing on having a clearly-relevant and effective content, concrete, logical, and convincing supporting examples, and the appropriate use of transitional devices, referential ties, and logical connectors. In addition, the EG was trained to pay their undivided attention to the structure and vocabulary used in their sentences (e.g., tenses, parts of speech, pronouns, articles, prepositions, conjunctions, and nouns) in order to produce grammatically-correct and clear sentences. The appropriate use of mechanical devices was stressed as well. According to the aforementioned Williamson's division (2012), the final section of the training was slightly different. That is, for having the opportunity to have support and to demonstrate their work, the treatment students were divided into two groups: givers and receivers, the former was given some instructions on how to review the essays and give feedback and the latter was trained to use the feedback to revise their essays. Later, the roles were reversed.



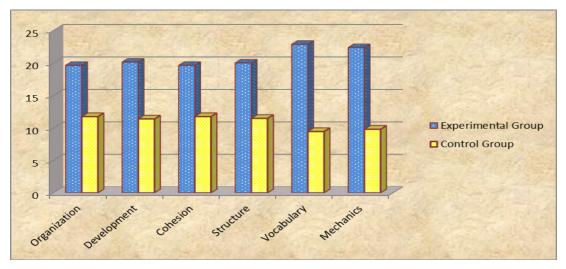


Figure 1: Mean ranks of EG and CG in the post-test

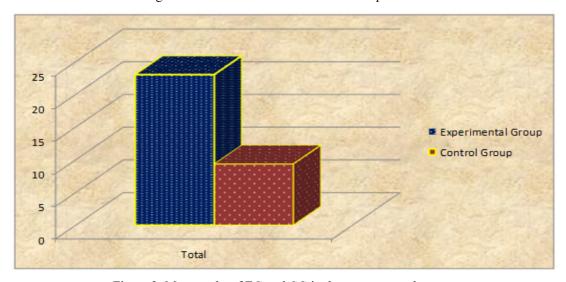


Figure 2: Mean ranks of EG and CG in the post-test total scores

Group work in the Saudi universities is still not recommended and valued because the teacher is regarded as the only one who has the knowledge. Therefore, students felt the difference of being involved in the present research. For the students, writing as a means of creating and forming ideas, and working with their peers required them to be engaged in multiple-intellectual levels. Group work was used as a tool for enhancing rigor in the class as what Rice and Hughley (1994) asserted that this work is performed by two or more people to produce and complete a text, and it includes brainstorming and generating ideas, planning and organizing, drafting, revising, and editing. Checking the EG students' reaction before and after the experiment, the second researcher interviewed some of them randomly. The results from the interview showed that the EG learners' attitudes were moderately positive; consequently, enhancing their writer's anxiety and apprehension. Before implementing rigor, one of those students' response was "Whenever I start a paragraph or an essay writing task, I face difficulty of organizing my ideas, introduction, main topic, supporting sentences for what I intend to write. I lack the ability to write a good essay". The same student, after the post-test, her attitude changed as she felt being more motivated and more positive; her grades had not only improved but she freely expressed her ideas and participated in the class: she did not have the fear.

Another student said, "I always get the idea. When I speak with a peer friend or the teacher, the idea develops from one paragraph to other... It really helps; when I speak with others I get what I need to write in the essay. But when I am writing alone, I am fixed at the topic sentence and lost ....."

Price (2004) mentions that "cognitive styles reflect the ways in which individuals process information and make sense of their world" p.683. Having raised the cognitive demands, the teacher created a "knowledgeable pressure" by asking for increasingly deeper examinations and elaborations in student work. This progression might move from a task asking for explaining a simple concept to a one requiring explaining a more complex concept. Atkinson (2004) suggests that a cognitive style is "a distinct and consistent way for an individual to encode, store



and perform" p. 663, and is thus related to approaches in learning situations.

Students mentioned that the teacher gradually asked them to write essays from easy to difficult tasks. Namely, she gave them initially to write a paragraph about themselves 'A biography' which was at the outset not so easy to understand the organizational pattern to write a paragraph (i.e. to write a reader's attention topic sentence, supporting sentences to the main idea and an appropriate conclusion). However, with the teacher's feedback and scaffolding effort, the EG students could write a five-paragraph essay.

The EG satisfactorily felt more contented about their writing after the treatment as they were encouraged to assess their peers' essays before final submission. Tolmie *et al.*, (2010) suggested that getting support from peers is more positive as learning tension is reduced because of the increase in mutual understanding between learning parties. Nevertheless, one student's reaction was different from those of the other interviewees; simply, she preferred writing independently, as she thought that it took a long time to finish writing essay when peers were involved.

Therefore, the findings indicated that those students who had been involved in rigorous learning had improved in all the intended aspects of writing; namely, *organization*, *development*, cohesion/*coherence*, *structure*, *vocabulary* and *mechanics*. However, they had improved more in some aspects and categories than in others. Overall, the impact was satisfactory. The attitudes and perceptions of the students had also improved as it appeared from their responses to the interview.

#### 7. Conclusion

The CR matrix was used to reach the level of the expected outcomes of the non-fiction, writing skills. CR includes the basic philosophy of learning that we expect our students to demonstrate not only content mastery, but also the skills and critical thinking about the disciplines being taught. To enhance the writing skills in the EFL classroom, rigor which was introduced in the present study as a strategy to fill this need, and to raise the standards of students' achievement, which were previously showing considerable fall in their accomplishment.

Educators should use the CR matrix to align the content in their curricular materials to the instructional techniques used in classroom delivery. The CR matrix focuses on complexity of content standards to successfully complete a task. Because CR encompasses the complexity of content, the cognitive engagement with that content, and the scope of the planned learning activities, the CR matrix can enhance instructional and assessment practices at the classroom level as well.

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## Appendix 1

Cognitive Rigor (CR) Matrix\* with Examples for Augmenting Non-Fiction Writing Skills

Cognitive Rigi	Webb's Depth-of-Knowledge Levels					
Bloom's Taxonomy levels	Level 1 Recall and Reproduction	Level 2 Skills and Concepts	Level 3	Level 4 Extended Thinking		
Retrieve knowledge from long-term memory,	Recall, recite, recognize, locate basic facts, or ideas					
Construct meaning, clarify, para- phrase, represent, translate, illustrate, give examples, classify, categorize, summarize, generalize, infer a logical conclusion, predict, compare/contrast, match like ideas, explain, construct models	Write simple sentences Describe/explain how or why	relationships Give non- examples/examples Make and record observations Summarize ideas Infer or predict from data or texts Identify main ideas	Explain, generalize, or connect ideas using supporting evidence Write full composition of multiple paragraphs to meet a specific purpose Identify themes			
Carry out or use a procedure in a given situation; carry out (apply to a familiar task), or	grammar and	using appropriate organization, text structure	Use reasoning, planning, and evidence Edit a final draft for meaning or logical progression of ideas Construct complex sentences	themes (historical,		
Break into constituent parts, determine how parts relate, differentiate between relevant-irrelevant, distinguish, focus, select, organize, outline, find coherence, deconstruct (e.g.,	Locate specific information contained in maps, charts, tables,	devices	Compare information within or across data sets or texts Analyze and draw conclusions Organize/interpret data Analyze author's craft or viewpoint	Analyze multiple sources of evidence or multiple works by the same author, or across genres Analyze complex/abstract themes Gather, analyze, and organize information Analyze discourse styles		
Evaluate Make judgments based on criteria, check, detect inconsistencies or fallacies, judge, critique		simple organizational strategies Construct compound sentences	Cite evidence, facts and details to develop a logical argument for viewpoints Describe, compare, and contrast Use a chronological order in a narrative			
Reorganize elements into new patterns/structures, generate, hypothesize,	perspectives related to a topic or a concept	hypotheses based on observations or prior knowledge Write summaries of the	Synthesize information within one source or text Develop a concept map for a given text Show awareness of audience and purpose through focus, voice, and organization	Write an analysis of multiple selections, identifying the common theme and generating a purpose that is appropriate for both		

<sup>\*</sup>Adapted from Hess, K. Jones, S., Carlock, D., & Walkup, J. (2009). Cognitive rigor: Blending the strengths of Bloom's taxonomy and Webb's depth of knowledge to enhance classroom-level [Online]. Available: <a href="https://files.eric.ed.gov/fulltext/ED517804.pdf">https://files.eric.ed.gov/fulltext/ED517804.pdf</a>.



## Appendix 2 Essay Scoring Rubrics\*\*

No organization/No development evident; ideas random, related to each other but not to task; no unity  Suggestion of Development organization; no clearseverely limited; random/unconnected; thesis; ideas listed or examples numbered, often notific sine sentence form; no paragraphing/groupin g; no unity  Suggestion of Development organization; no clearseverely limited; random/unconnected; the sis; ideas listed or examples random, attempt at transitions may attempts at limited range; organization; no unity  Not coherent; no Attempted Meaning extremely limited; recurring, range; punctuat paragrap recurring, range; punctuation; nor obliterate derivational meaning; non-morpheme use; English patterns little to no predominate knowledge of appropriate word use regarding meaning and syntax  Suggestion of Development organization; no clearseverely limited; random/unconnected; sentences; some inhibited; very thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; organization; no clear severely limited iters; reader is lost.  Suggestion of Development organization; no clearseverely limited, random/unconnected; sentences; some inhibited; very evidence comman very attempts at limited range; organization; no clear referential transitions may attempts at limited range; organization; no clear referential transitions may attempts at limited range; organization; no clear referential transitions may attempts at limited range; organization; no clear referential transitions may attempts at limited range; organization; no clear referential transitions may attempts at limited range; organization; no clear referential transitions may attempts at limited range; organization; organiza
evident; ideas random, related to each other but not to task; no paragraphing; no thesis; no unity  Suggestion of Development organization; no clearseverely limited; random/unconnected; sentences; some in sentence form; no paragraphing/groupin g; no unity  Suggestion of Development organization; no clearseverely limited; random/unconnected; sentences; some in sentence form; no paragraphing/groupin g; no unity  relationship of ideas simple sentences; obliterated; comman sepelling, punctuat unsystematic incorrect/unsyste paragrap grammatical matic inflectional, capitalize incorrect/unsyste paragrap matic incorrect/unsyste paragrap matic inflectional, capitalize incorrect incorrect, meaning often unsystematic; comman services; some inflectional services; some incorrect, meaning often unsystematic;
random, related to each other but not to task; no paragraphing; no thesis; no unity  Suggestion of Development organization; no clearseverely thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; organization; no off paragraphing/groupin g; no unity  Suggestion of Development organization; no clearseverely thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; organization; no organization; no organization; no clearseverely thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; organization; no organization; no organization; no clearseverely thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; organization; no organiz
task; no paragraphing; no thesis; no unity  thesis; no unity  suggestion of Development organization; no clear severely limited; random/unconnected; sentences; some inhibited; very thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; no paragraphing/groupin g; no unity  suggestion of Development organization; no clear severely limited; random/unconnected; sentences; some inhibited; very evidence comman paragraphing/groupin ties; reader is lost.  unsystematic incorrect/unsyste matic inflectional, eapitalize incorrect/unsyste matic inflectional, eapitalize incorrect/unsyste matic inflectional, eapitalize incorrect/unsystem matic inflectional incorrect/unsystematic incorrect/unsystem matic inflectional incorrect/unsystematic inflectional incorrect/unsystematic incorrect/unsystematic incorrect/unsystematic incorrect/unsystematic inflectional, eapitalize incorrect/unsystematic incorrect/unsystematic incorrect/unsystematic inflectional/ eapitalize incorrect/unsystematic incorrect/unsystematic incorrect/unsystematic inflectional/ eapitalize incorrect/unsystematic incorrect/unsystematic inflectional/ eapitalize incorrect/unsystematic incorr
paragraphing; no thesis; no unity    paragraphing; no thesis; no unity   grammatical errors obliterate derivational morpheme use;   English patterns little to no predominate   knowledge of appropriate word use regarding meaning and syntax
thesis; no unity  crrors obliterate derivational meaning; non-morpheme use; English patterns little to no predominate knowledge of appropriate word use regarding meaning and syntax  Suggestion of Development organization; no clear severely limited; random/unconnected; sentences; some inhibited; very thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; numbered, often notif given. be present, but ineffective; various verbrelies on paragraphing/groupin g; no unity  ties; reader is lost.  clarity; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
meaning; non-morpheme use; English patterns little to no predominate knowledge of appropriate word use regarding meaning and syntax  Suggestion of Development organization; no clear severely limited; random/unconnected; sentences; some inhibited; very thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; comman numbered, often notif given. in sentence form; no paragraphing/groupin g; no unity  meaning; non-morpheme use; English patterns little to no predominate knowledge of appropriate word use regarding meaning severely sentences; some inhibited; very evidence comman basic mechanic few or unclear referential tenses; serious repetition of ties; reader is lost.  unsystematic common words; errors, occasional inflectional/ clarity; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
English patternslittle to no predominate knowledge of appropriate word use regarding meaning and syntax  Suggestion of Development Not coherent; ideas Uses simple Meaning severely organization; no clear severely limited; random/unconnected; sentences; some inhibited; very thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; comman be present, but ineffective; various verbrelies on basic in sentence form; no paragraphing/groupin g; no unity  English patterns little to no predominate knowledge of appropriate word use regarding meaning severely Some evidence comman between the sis; ideas listed or examples random, attempt at transitions may attempts at limited range; comman be present, but ineffective; various verbrelies on basic in sentence form; no few or unclear referential tenses; serious repetition of unsystematic common words; errors, occasional inflectional/ error- rectainty; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
Suggestion of Development Not coherent; ideas Uses simple Meaning severely organization; no clearseverely limited; random/unconnected; sentences; some inhibited; very evidence thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; numbered, often notif given. be present, but ineffective; various verbrelies on paragraphing/groupin g; no unity errors, occasional inflectional/ error- relarity; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
Suggestion of Development Not coherent; ideas Uses simple Meaning severely organization; no clears everely limited; random/unconnected; sentences; some inhibited; very thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; organization; no offen notifigiven.  be present, but ineffective; various verbrelies on paragraphing/groupin ties; reader is lost.  unsystematic common words; features; errors, occasional inflectional/ error- referential uses morphemes coordination; incorrect, meaning often unsystematic;
Suggestion of Development Not coherent; ideas Uses simple Meaning severely organization; no clear severely limited; random/unconnected; sentences; some inhibited; very evidence thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; be present, but ineffective; various verbrelies on paragraphing/groupin ties; reader is lost.  Some evidence comman basic mechanic few or unclear referential tenses; serious repetition of paragraphing/groupin ties; reader is lost.  Uses simple Meaning severely evidence vidence; various verbrelies on basic mechanic few or unclear referential tenses; serious repetition of eatures; errors, occasional inflectional/ error- relarity; possibly derivational uses morphemes unsystem and unsystem often unsystematic;
Suggestion of Development Not coherent; ideas Uses simple Meaning severely organization; no clear severely limited; random/unconnected; sentences; some inhibited; very evidence thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; comman be present, but ineffective; various verbrelies on basic in sentence form; no paragraphing/groupin g; no unity errors, occasional inflectional/ errors, occasional inflectional unsystem and unsystem and unsystem coordination; incorrect, meaning often unsystematic;
Suggestion of Development Not coherent; ideas Uses simple Meaning severely organization; no clear severely limited; random/unconnected; sentences; some inhibited; very evidence thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; comman numbered, often notif given. be present, but ineffective; various verbrelies on paragraphing/groupin few or unclear referential tenses; serious repetition of unsystematic common words; errors, occasional inflectional/ error- relarity; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
Suggestion of Development Not coherent; ideas Uses simple Meaning severely organization; no clears everely limited; random/unconnected; sentences; some inhibited; very evidence thesis; ideas listed or examples random, attempt at transitions may attempt at limited range; comman the paragraphing/groupin be present, but ineffective; various verbrelies on paragraphing/groupin ties; reader is lost. In the property of the property of the present in the property of the present in sentence form; no paragraphing/groupin g; no unity or the property of the present in transitions may attempt at limited range; comman the present in the prese
organization; no clear severely limited; random/unconnected; sentences; some inhibited; very thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; be present, but ineffective; various verbrelies on paragraphing/groupin g; no unity  be present, but ineffective; various verbrelies on few or unclear referential tenses; serious repetition of unsystematic common words; errors, occasional inflectional/ clarity; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
thesis; ideas listed or examples random, attempt at transitions may attempts at limited range; comman humbered, often notif given.  be present, but ineffective; various verbrelies on basic mechanic few or unclear referential tenses; serious repetition of unsystematic common words; errors, occasional inflectional/clarity; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
be present, but ineffective; various verbrelies on few or unclear referential tenses; serious repetition of unsystematic common words; features; errors, occasional inflectional/clarity; possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
few or unclear referential tenses; serious repetition of unsystematic common words; features; errors, occasional inflectional/ error- relative possibly derivational uses morphemes coordination; incorrect, meaning often unsystematic;
paragraphing/groupin g; no unity  ties; reader is lost.  unsystematic common words; errors, occasional inflectional/ error- relarity; possibly derivational uses morphemes unsystem coordination; incorrect, meaning often unsystematic;
g; no unity  errors, occasional inflectional/ clarity; possibly derivational and uses morphemes coordination; incorrect, meaning often unsystematic;
clarity; possiblyderivational and uses morphemes unsystem coordination; incorrect, meaning often unsystematic;
uses morphemes unsystem coordination; incorrect, meaning often unsystematic;
coordination; incorrect, meaning often unsystematic;
meaning oftenunsystematic;
unsuccessful command of
attempts atcommon words;
embedding mayseldom idiomatic;
be evident reader greatly
distracted
Some organization; Lacks content at Partially coherent; attempt Meaning not Meaning Evidence
relationship between abstract and at relationship, relevancy impeded by use inhibited; limited developi
ideas concrete levels; and progression of some of simple range; some comman
not evident; few examples ideas, but inconsistent or sentences, patterns of errors basic
attempted thesis, ineffective; limited use of despite may be evident; mechanic
but unclear; no transitions; relationship errors; attempts limited features;
paragraphing/ within and between ideas at command of frequent,
grouping; no unclear/non-existent; may complicated usage; much unsysten
hierarchy of ideas; occasionally use sentences inhibit repetition; reader errors
suggestion of unity of appropriate simple meaning; distracted at
ideas referential ties such as possibly uses times coordinating conjunctions coordination
coordinating conjunctions coordination successfully;
embedding may
be evident;
non-English
patterns evident;
non-parallel and
non-parallel and inconsistent
inconsistent
inconsistent structures
inconsistent structures  Organization present; Underdeveloped; Partially coherent, main Relies on simple Meaning inhibited May hav
inconsistent structures  Organization present; Underdeveloped; Partially coherent, main Relies on simple Meaning inhibited May hav ideas show grouping; lacks concreteness; purpose somewhat clear to structures; by somewhat paragrap
inconsistent structures  Organization present; Underdeveloped; Partially coherent, main Relies on simple Meaning inhibited May hav



Organization/Unity	Development	Cohesion/Coherence	Structure	Vocabulary	Mechanics
			1		spelling,
hierarchy of ideas;	support for each	connectors between/within			capitalization,
lacks overall		ideas/paragraphs	maybe evident in		basic
persuasive focus		effectively;		1 0 /	punctuation
and unity		relationship		somewhat limited	
		between/within		command of word	
		ideas not evident; personal		usage;	
			English patterns		
		,	evident	idiomatic;	
		command of demonstrative		frequent use of	
		pronouns and other		circumlocution;	
		referential ties; repetition		reader distracted	
		of key vocabulary not used			
		successfully			
					Paragraph
		attempt to relate ideas, still			format
			grammatical		evident; basic
~				range and variety;	
		connectors between/within		1 0	simple
follow it; ideas	,				spelling,
		ideas/paragraphs;		control; command	
11 1		command of personal			formatting
	appropriate		J /	,	under
unclear at times;		reference; partial command			control;
hierarchy of ideas		of			systematic
may		demonstratives, deictics,	•	,	errors
exist, without	others may be	determiners		distracting; some	
	logical fallacies,		0	use of circumlocution	
importance; some unity	unsupported generalizations		occasionally disrupted by use	circumiocution	
unity	generanzations		of complex or		
			non-English		
			patterns; some		
			non-parallel,		
			inconsistent		
			structures		
Clear introduction,	Partially	Basically coherent in	Some variety of	Meaning seldom	Basic
l		4	•	l <del>"</del>	mechanics
beginning control		and focus; mostly effective	1	,	under control;
					sometimes
•		used to progress ideas;	pattern of error;	J /	successful
			<u> </u>	11 1	attempts at
		clear; referential/anaphoric		in lexical choices;	1
position		reference may be present;	construction and		such as semi-
<b>.</b>		command of		•	colons, colons
		demonstratives;	1	person; infrequent	
11 0				errors in	
	under-supported	of		morpheme usage;	
		transitions	morpho-syntactic		
ideas	generalized;			some idiomatic	
present without	repetitive			expressions	
always				successfully;	
reflecting idea				general command	
importance; may			inhibit meaning	of usage; rarely	
digress from topic				distracting	
	Acceptable level of				Occasional
	1 ,	persuasive	-	· · · · · · · · · · · · · · · · · · ·	mistakes in
paragraphing and	concreteness	focus and purpose,	increasing	adequate range,	basic



Scale Organization/Unity	Development	Cohesion/Coherence	Structure	Vocabulary	Mechanics
topic sentences;	present and	μ - Σ			mechanics;
hierarchy of ideas			morpho-syntactic		increasingly
	consistent; logic			infrequent errors	successful
include persuasive	evident, makes			in usage; some	attempts at
evidence;	sense, mostly	,	,		sophisticated
position	adequate		frequent	to style; mistakes	punctuation;
statement/thesis		,			may
narrowed and directs	may be repetitive	devices	attempts at	little use of	have
essay;		may still be inconsistent/	complex	circumlocution	systematic
may occasionally		ineffective at times; may	structures; non-		spelling errors
digress from topic;		show	English patterns		
basically unified;		creativity; possibly still	do not inhibit		
follows standard		some	meaning; parallel		
persuasive		irrelevancy	and		
organizational			consistent		
patterns			structures used		
Definite control of	Each point clearly	Coherent; clear	Manipulates	Meaning clear;	Uses
organization; may	developed with a	persuasive purpose and	syntax with	fairly	mechanical
show some creativity:			attention to style;	sophisticated	devices to
may attempt implied	convincing types of	topic; consistency and	generally error-	range and variety;	further
thesis; content clearly			free sentence	word usage under	meaning;
relevant, convincing		transitions/ referential	variety; meaning	control;	generally
unified;				occasionally	error-free
sophisticated; uses	effectively; may	lexical repetition,	English patterns	unidiomatic;	
organizational	show originality in	derivations, synonyms;	rarely evident	attempts at	
control to further	presentation of	transitional devices		original,	
express ideas;	support; clear	appropriate/ effective;		appropriate	
conclusion may serve	logical and	cohesive devices used to		choices; may use	
specific function	persuasive/convinc	further the progression of		some language	
	ing progression of	ideas in a manner clearly		nuance	
	ideas	relevant to			
		the overall meaning			
Highly effective	Well-developed	Coherent and convincing to	Mostly error-	Meaning clear;	Uses
organizational		reader; uses transitional		sophisticated	mechanical
pattern for	logical, appropriate	devices/referential	success in using		devices for
convincing,		ties/logical connectors to		often idiomatic;	stylistic
persuasive essay;	examples, evidence	create and further a	stylistic	often original,	purposes; may
	and details; highly		advantage;	appropriate	be error-free
position statement;	effective/			choices; may have	
content relevant and				distinctions in	
effective	possibly creative			nuance for	
	use of support		μ	accuracy, clarity	
Appropriate native-		Appropriate native-like	Appropriate	Appropriate	Appropriate
like standard written			** *	native-	native-like
English	written English	2	standard written		standard
	6				written
					English
**COUDCE. Daulus, T. M. (1	I	L	1	of Cocond I anomaco	

<sup>\*\*</sup>SOURCE: Paulus, T. M. (1999). The effect of peer and teacher feedback on student writing. *Journal of Second Language Writing*, 8, 265-289; as used by:

Lundstrom, K. (2006). Teaching Writing Through Peer Revising and Reviewing. *All theses and dissertations*, 937. Available: https://scholarsarchive.byu.edu/etd/937