A rubric was developed to evaluate laboratory reports written by undergraduate students of astronomy and astrophysics from Universidad Católica de Chile. The process of elaboration, peer validation, and application of the rubric to the evaluation of written tasks extended from August 2011 to August 2012. The instrument proved to be effective as an assessment tool that guides teachers towards the fundamental criteria that must be considered when evaluating their students' writing. Moreover, the instrument provides useful guidelines to direct students' attention towards the critical components of the laboratory report genre.

Key words: Academic genre, academic literacy, assessment, laboratory report, rubric.

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Introduction
At the turn of the twenty-first century, Fairclough (2000) announced the birth of a new rhetoric of reconciliation that advocates for economic progress and social justice. This alignment, however, has not been the only new development. In the last ten years, as Rose (2005) claims, the discourse of economic production has colonized education as well as social and scientific research. The demands imposed by capitalist economic models to improve and increase production have extended to academic life. This philosophy is embodied in the aggressive emphasis that many universities place on the evaluation of the academic performance of their scholars, which is based almost exclusively on the production and publication of papers in widely known indexed journals. This emphasis on publication has posed a challenge to the high school and tertiary education curriculum to develop writing competences that prepare students for professional and academic life.

Successful writing programs in Australia (Christie & Martin, 2007) seek to re-contextualize science into the school curriculum. That is, these writing programs translate the scientific discourse produced at the research level into a pedagogic discourse to develop in their high school students the writing competences that will prepare them to write in the fields of science and technology in tertiary education. Similar efforts have been made in numerous countries, which have years of experience in the implementation of writing laboratories in schools and universities.

Unlike developed countries, Latin America has been struggling for decades to raise the population’s literacy level in its mother tongue. Most public schools focus on the development of general literacy skills in primary and secondary schools, to the detriment of the implementation of a curriculum focused on the formation of academic skills that would train students in the abilities necessary to meet the demands of tertiary education.

Studies conducted in a number of nations in South America (Arnoux, Di Stefano, & Pereyra, 2002; Bazerman, 2000; Carlino, 2003, 2004, 2006; Rosales & Vásquez, 1999) confirm that academic failure in the region during the freshman year of college is largely due to difficulties in the completion of reading and writing tasks that constitute the core of most college courses. This situation remained unaltered until the early twenty-first century, when the tentative implementation of writing courses in universities in Argentina, Chile, and other South American countries began.

A decade later, the experience in Chile has proven successful; however, the courses currently offered are not open to the entire community of students but, rather, have been tailored to serve the needs of a few schools in the university. In the meantime, professors have also expressed their concern as to the urgent need for the development of reading and writing skills in English, as this is the lingua franca of scientific publication. This problem adds to the fact that academic literacy in the native language (L1) does not automatically transfer to a foreign language (L2). In most cases, having to work in both languages may be the cause of strong sources of interference that affect the writer/speaker’s performance in the mother tongue and in the target language.

For the past 20 years, government policies have aggressively tackled the teaching of English in Chilean schools; however, results from international exams evaluating the implementation of numerous measures to improve the level of English proficiency in students show only modest progress. Universidad Católica de Chile acknowledges that this problem affects foreign language teaching at the elementary and high school levels and requires every student to certify they have reached an intermediate level of proficiency in English before the completion of their undergraduate studies. Freshmen who fail an exam that is given to all students upon entrance to university must take
English courses and obtain certification before they finish their studies. However, such courses aim to develop general communicative skills that favor the development of oral production skills.

This paper describes and discusses the interdisciplinary process of elaborating a rubric (see Appendix) that helps professors from the Department of Astronomy from the Pontificia Universidad Católica de Chile to evaluate laboratory reports written by sophomore students of Licenciatura en Astronomía (teaching of astronomy major). The paper provides an overview of academic literacy in tertiary education in South America, specifically in the Chilean context. Then, it focuses on a brief description of the conditions for the production of a laboratory report in the field of astronomy. Finally, the paper tackles the use of rubrics to guide the process of producing and assessing written discourse in the field of astronomy.

**Academic Literacy in South American Universities**

The epistemic nature of reading and writing places both processes at the core of the debate over the critical role that the comprehension and production of academic texts has in highly literate contexts. It is well known that reading and writing in academic environments in many South American countries is mostly addressed in tertiary education, quite late considering the cognitive complexity that encompasses the development of receptive and productive skills in disciplinary areas. In addition to a late start in the development of academic literacy skills, obsolete teaching practices in high schools value the rote reproduction of content taught in class over the development of an enquiry-based approach to learning.

Writing instruction in most Latin American high schools is disregarded as an epistemic tool, as its use has been reduced to the reporting of facts discussed in textbooks. In countries such as Chile, writing is not considered part of the national selection system to enter university. This mode of selection was eliminated from the national admission examination in 1966, and its inclusion has not been a matter of concern since then. The consequence of Chile’s long-standing exclusion policy has been the creation of a gap between the literacy abilities that freshmen have developed over the course of twelve years of schooling and the high demand of the writing tasks faced by students in their first year at university.

The context of university freshman classes is dominated by the significant number of individuals who exhibit only a modest development of academic literacy skills, aggravated by little experience in the performance of research tasks. Looking for and finding information in libraries and electronic sources often become insurmountable obstacles to first year students. In addition, freshmen see themselves forced to overcome academic shortcomings in a trial and error fashion, as there is no one to assist them in the process of becoming active apprentices in the academic community (Arnoux et al., 2002; Bazerman, 2000, 2012; Carlino, 2003, 2004, 2006).

As we have asserted earlier, writing in academic settings implies the construction of an identity, a process that begins with individuals stepping into a disciplinary arena and observing from a peripheral standpoint how knowledge is processed, negotiated, and communicated between experts. This period is then followed by a training stage in which apprentices apply particular disciplinary discourse traditions not only to transmit information but also to exchange ideas and evaluate and validate their own perspectives in strict adherence to the norms and conventions of the community (Harvey, 2005; Harvey & Muñoz, 2006; Moyano, 2007).

**The Laboratory Report Genre in Astronomy**

Genre studies conducted in Chile (Harvey, 2005; Harvey & Muñoz, 2006; Núñez & Espejo,
2005; Oyanedel, 2005; Parodi, 2005) argue for the importance of establishing conceptual differences between a discourse community (Swales, 1990) and a community of practice (Lave & Wenger, 1991). According to Harvey and Muñoz (2006), the former refers to what Swales calls a socio-rhetorical group, that is, a circle with the purpose of maintaining and extending knowledge. A community of practice refers to the development of a master-apprentice relationship as a result of group interaction between members of a community who hold different levels of knowledge and skill development.

The foundations of academic literacy lie in the master-apprentice bond constructed as a result of interaction and discourse negotiation, which is not limited to communication between experts and apprentices but also including interaction between apprentices holding different skills and proficiency levels in writing (Rose & Martin, 2012). As Wenger (1998) postulates, communities of practice, unlike discourse communities, are open to new members and provide them with opportunities to participate and continuously acquire and contribute knowledge. This research is in accord with the notion of the community of practice, as its definition best supports the principles of academic literacy in the university context.

The basis of our proposal is rooted in the genre-based approach to writing that emerged in the mid-1980s in Australia and New Zealand, among other countries. The principle that justifies this approach is that human beings process and understand meaningful pieces of information; therefore, texts are processed as social events that occur in situational contexts in which writers use language to meet rhetorical purposes. According to Callaghan and Rothery (1988), Martin and Rothery (1993), and Rose and Martin (2012), teaching writing entails the creation of awareness of how different texts are structured to satisfy a given communicative goal. The implication here is that teachers must emphasize not only linguistic resources authors use to convey meaning but also discourse structure, register, and concept use and control.

The genre-based approach takes a top-down perspective, as it emphasizes the social functions of a text, defined by the interweaving of three essential components: field, tenor, and mode. The field lays the grounds for the events to be narrated, discussed, described, and so forth. The tenor refers to the social roles enacted by the readers and writers of the laboratory report. Finally, the mode, in the specific case of the laboratory report, denotes a densely written task (Rose & Martin, 2012).

We conducted a semi-structured interview prior to the analysis of the two hundred laboratory reports written by undergraduate students of Licenciatura en Astronomía from Instituto de Astrofísica (Institute of Astrophysics) of the Pontificia Universidad Católica de Chile that comprise the corpus of this study. The interview consisted of four questions, the purpose of which was to help the researchers visualize the purpose of the laboratory report, the stages that comprise its structure, and the purpose each stage serves in the overall process of knowledge construction entailed in this type of writing in the discipline. The interviewee was the professor teaching Taller de Astronomía (Astronomy Workshop) I and II at the time this study was conducted.

The answers provided by the teacher show that an adequate laboratory report aims to communicate the results of an experiment and includes an abstract, objectives, introduction, a reference to the experiment performed and the procedure carried out, results and analysis, and, finally, conclusions. In all, the representation of a laboratory report that faculty members seem to agree upon defines the genre as the synthesis of an experience, including the procedure used in the performance of the experiment. However, they also consider a laboratory report to be bibliographic research that integrates different
perspectives on a single topic. This definition forms the basis of the process of developing a rubric to evaluate laboratory reports.

**Rubrics to Guide the Process of Producing and Assessing Written Tasks in EFL**

The extensive use of rubrics for evaluative purposes has become a new trend in education. In 2001, the Common European Framework of Reference (CEFR) produced a complete description of linguistic, sociolinguistic, and pragmatic competences that learners of foreign languages must demonstrate at different levels of proficiency in the performance of written and oral tasks. The rubrics presented by the CEFR show a detailed account of elements that play a critical role in oral presentations, face to face interactions, letter writing, and other communicative tasks that are fulfilled in either the oral or written modes of language.

The production of texts in a foreign language entails a strategic organization of linguistic, sociolinguistic, and pragmatic resources and the combination of different competences involved in writing in L2. Flower and Hayes (1981) and Hayes (1996) suggested that written production can be conceived as a three-stage process, which mainly consists of planning, translating, and revising. Each stage in the cognitive model postulated by Flower and Hayes is subdivided into sub-stages that involve cognitive processing in which L2 learners engage while composing. In most cases, English as a foreign language (EFL) learners tend to divide planning into a stage of rehearsal in which individuals analyze the purpose of a given writing task to consider the type of audience they are addressing and mobilize the necessary language resources to adjust their writing to the objective of the task. During the translation stage, L2 learners display compensation strategies to counterbalance the lack of linguistic, sociolinguistic,
may assist professors and students in the process of teaching and learning to write. The authors distinguish three fundamental skills in what they postulate as a competency model, that is, a representation of the competences at play in writing.

The model proposed by Deane (2010) distinguishes a first skill, language and literacy, which operates at a sentence level and comprises conventions underlying the use of standard language, clarity and variety of sentence structure, and command of vocabulary. The second skill is writing strategies, and its main focus is document level skills, or the competences of organizing, placing emphasis, and developing a topic in writing tasks. The third and last skill is critical thinking for writing, which involves content-related and socially defined background skills, that is, abilities pertaining to the mastery of argumentation and evaluation beyond the adjustment to standards for writing in academic settings, such as those related to the social role that a writer has in the academia.

The rubric proposed in this study follows the principles postulated by Deane (2010) and Deane et al. (2012) for assessing writing in academic settings. There are three components to the rubric discussed in this paper. The first are the criteria or conditions that a written task must meet. Next are the descriptors or explanations of the criteria at each level of performance. The third component is the scaling or level of proficiency writers usually show in the performance of a written task.

Criteria and Scaling to Evaluate Writing Performance in Laboratory Reports

Writing as a psycholinguistic activity entails triggering the reflective, expressive, and receptive modes of thought that are at work across the process of writing. Every mode of thought activates cognitive skills connected to the pragmatic, sociolinguistic, and linguistic representation of the writing task during planning, writing, and editing (Bereiter & Scardamalia, 1987; Flower & Hayes, 1981; Graham & Perin, 2007; Marinkovich, 2002). The criteria identified for the rubric proposed in this paper conform to several forms of the cognitive representations that derive from the pragmatic, sociolinguistic, and linguistic competences involved in writing.

According to Deane (2010), the first of the varied representations constructed in the writing process is social and rhetorical elements. This representation refers to a mental image of the written task that writers construct in light of the social and institutional context in which the writing task is embedded. The second representation corresponds to what Deane calls conceptual elements, a representation of the subject matter to be dealt with. The third is textual elements and comprises representations of the text structure and coherence. The fourth is verbal elements, which entail the linguistic representation of sentences and propositions. The last corresponds to lexical/orthographic elements, which show how verbal elements are instantiated in written texts.

Based on the numerous mental representations that play a critical role in cognition during writing (Deane, 2010), the rubric we propose in this study identifies as its first criterion the conventions of the laboratory report. This standard defines competent writing as the writer’s demonstrated ability to take an impersonal theoretical approach to the task of addressing the rhetorical problem. A competent writer is able to use language and expressions in a manner appropriate to the conventions of a formal register. In addition, a writer at a competent level presents information synthetically and shows some creativity in the communication of information. Creativity is understood as the ability the writer has to express the product of their findings in his/her own words.

The second criterion corresponds to conceptual reasoning, the substantial mastery of disciplinary
concepts that a competent writer demonstrates in the careful selection of ideas that exceed in quality and number the concepts delineated by a reference framework traditionally known to a learner. Under conceptual reasoning, we can also consider the ability to construct coherence, that is, the skill of a proficient writer in controlling the inclusion and exclusion of information on the basis of his/her knowledge of the target audience. Disciplinary writing implies that a task is being addressed to an audience that is familiar with the topic of discussion; therefore, a skilled writer knows what information to omit due to its obviousness.

Another criterion considered essential to the evaluation of academic writing is discourse knowledge. This standard implies that a writer at a proficient level can produce a written task that follows a textual pattern, but it also considers the rhetorical movements or move and step analysis discussed by Swales (1990). Rhetorical movements, according to Swales, are the foundations of genre because these moves give every section of the research paper, journal article, or laboratory report the essence by which we recognize an introduction as such (Swales, 1990).

Finally, the last criterion considered fundamental for writing in a foreign language is use of linguistic resources. This aspect involves the ability to use complex grammatical structures and an accurate selection of vocabulary to communicate ideas with precision and clarity. A proficient writer is capable of selecting a wide variety of connectors to produce a coherent and cohesive piece of writing that fits the demands of a laboratory report in the target field.

The scaling defines three levels of proficiency, namely: competent, functional, and initial. The names chosen for the scales conform to the principle underlying evaluation for learning (East, 2009; Knoch, 2011), that is, observed mistakes identify the challenges learners must tackle to advance to a higher level of performance.

The performance level named competent comprises skills that clearly go beyond core expectations. That is, competent writers show a critical and reflective approach to the issue being discussed, demonstrated in the ability of individuals to integrate and apply new knowledge with some independence from what recognized authors postulate about the topic under study. The next level is called functional and describes the ability of an individual to complete a writing task by meeting the basic requirements. At this level, writers usually engage in the completion of the writing task with very little independence from what authorities assert about the issue being discussed. This level is manifested by the choice of concepts and linguistic resources to paraphrase what other authors assert about the topic. There is little space for interpretation and discussion of the task by the author. The last level, called initial, is intended to describe writers who have not yet reached the basic level of expectations. At this level, readers are most likely to find concepts incorrectly used or defined and the presence of many mistakes in the choice of linguistic resources.

One of the greatest challenges that professors may face when designing a rubric is the complexity that demands the description of abilities according to criteria for every performance level. Such descriptions require a clear assessment of abilities that are involved in writing that are not considered part of the disciplinary content. Most professors ignore the technical names of standards or cannot make a clear distinction between them. Another possible difficulty is the approach the professor takes when describing abilities, as most feedback concentrates on negative aspects of assignments. The design proposed in this paper focuses on abilities that characterize each performance level; therefore, the concepts are positive and indicate the challenges the student must overcome to reach a level of writing that qualifies them to be considered part of a given community of knowledge.
The classical models of writing proposed by Bereiter and Scardamalia (1987) suggest that a way to scaffold students’ advances for a more mature level is to provide them with common phrases or expressions grouped according to their rhetorical functions; for example, introducing a new idea, elaborating the idea previously introduced, etc. Students could then count on the linguistic resources necessary to construct a fluent and well-structured writing task. The idea we propose in this paper consists of developing lists of linguistic resources grouped according to the rhetorical function they serve in the different sections of a laboratory report. These guidelines would awaken students’ awareness of how experts structure an abstract in a laboratory report. An analysis of how information is conveyed linguistically gives students a basis from which to start their own writing tasks.

Another critical aspect in the design of a teaching/learning instrument of evaluation is the feedback that teachers may derive from its use. An essential feature of a rubric is its focus on competences, that is, the emphasis on skills that characterize the writing process at a competent, functional, and initial level. The focus on competences usually describes what the individual can do at a certain level of proficiency. The strength of a rubric as a teaching/learning instrument of evaluation lies in the positive statement of the skills an individual is capable of displaying during the complex process of planning, composing and revising. Consequently, the feedback generated by the use of rubrics to evaluate written tasks concentrates on the skills the writer exhibits in the completion of a task and also provides the writer with information about how distant/close their writing may be to becoming competent.

Conclusions

This paper reasserts the classical reading-writing connection that makes both activities fundamental to academic literacy in tertiary education. Comprehension is critical, as discourse is the product in which habits of thinking are realized. That is, written production entails the careful selection, evaluation, and integration of information in a discourse to provide a critical view of different perspectives that coexist in the study of a given phenomenon.

Currently, writing is no longer seen as a solipsist cognitive process that begins and ends with the individual. Today, writing entails the performance of a social and political activity that involves the negotiation of identity in close connection with the individual’s social role in a community. The concept of communities of practice, developed in the late 1990s by Wenger (1998), serves as the basis of academic literary. This concept has been found to represent perfectly the apprentice-expert-other apprentice relationship that scaffolds the development of literacy skills in new members.

This apprentice-expert relationship has been, as a matter of fact, almost non-existent in most South American universities. This phenomenon is explained by the dominant belief that the development of academic literacy is a responsibility of high school teachers. Consequently, for a long time, universities did not assume their share in the responsibility of fostering the development of skills to comprehend and produce the discourse at the heart of every academic community. The result of this long-standing belief has certainly affected the academic performance of undergraduates, who frequently struggle to meet the requirements of an academic life that does not provide them with the necessary tools to succeed.

The design of a rubric that serves the purpose of evaluating written tasks and specifying useful guidelines to write laboratory reports has resulted in an arduous but rewarding task because it has enabled the construction of an interdisciplinary dialogue between astronomers and linguists to create an instrument of evaluation that responds to the production conditions of laboratory reports in astronomy in a foreign language.
Inspired by a model of writing suggested by Deane (2010) and encouraged by the proposal of a genre-based pedagogy by Rose and Martin (2012), the rubric described in this paper emphasizes the competences involved in the representation of the rhetorical problem in its social, discursive, linguistic, and disciplinary aspects. The rubric we propose describes skills writers usually demonstrate at an initial, functional, and competent level of performance. The scaling conforms to a view of writers as apprentices who are expected to evolve from a beginner level of proficiency in writing to an advanced performance level that will allow them to become potential members of the community of practice, as defined by astronomers.

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should the criteria come from? Assessing Writing, 16(2), 81-96.

About the Author

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**Appendix: Rubric for the Evaluation of Laboratory Reports**

**Proyecto FONDEDOC 2011-2012**

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Competent</th>
<th>Functional</th>
<th>Initial</th>
</tr>
</thead>
<tbody>
<tr>
<td>\textbf{Conceptual reasoning}</td>
<td>[100-90] The report presents a theoretical framework that shows there was a revision of the relevant bibliography in the area. The analysis and discussion of the results of the experimental application demonstrate a good management of disciplinary concepts. Some concepts are dealt with superficially.</td>
<td>[80-89] The theoretical background presents a suitable revision of the relevant bibliography in the area. The analysis and discussion of the results of the experimental application demonstrate a good management of disciplinary concepts.</td>
<td>[60-69] The presence of a scantily developed theoretical framework indicates a poor revision of the relevant bibliography in the area. The analysis and discussion of the results show a poor explanation of the data related to the phenomenon under observation.</td>
</tr>
<tr>
<td></td>
<td>[70-79] The theoretical framework shows a partial revision of the relevant literature on the phenomenon to be observed. There is a regular level of comprehension regarding the phenomenon observed. This comprehension is illustrated in the partial development of the analysis and discussion of results.</td>
<td>[60-69] The presence of a scantily developed theoretical framework indicates a poor revision of the relevant bibliography in the area. The analysis and discussion of the results show a poor explanation of the data related to the phenomenon under observation.</td>
<td>[50-59] The development of a theoretical framework is based on personal opinions and scant revision of the bibliography related to the phenomenon to be observed. The analysis and discussion of the results show no elaboration of analysis or argumentation but a reiteration of ideas previously stated.</td>
</tr>
</tbody>
</table>

Definition: Command of disciplinary concepts in the theoretical framework, analysis, and discussion of results of an observation of a phenomenon.

Criteria: Precision and correctness in the use of disciplinary concepts.
### Discourse Knowledge
Definition: Ability to produce a report that follows a canonical textual organization. Criteria: Coherent organization of ideas in the different sections that comprise a laboratory report.

- **Competent**
  - [100-90]
  - The writing task perfectly fits the discourse pattern of the laboratory report. Every section of the report (abstract, introduction, theoretical framework, methodology, analysis and discussion, and conclusions) is developed in close relation to its rhetorical purpose (e.g., the introduction presents a general overview of the problem and defines the purpose of the report).

- **Functional**
  - [80-89]
  - The writing task fits the standards set for a good laboratory report. The writing task presents all the sections (abstract, introduction, etc.) identified for a laboratory report. The sections that comprise the laboratory report present an adequate depth of development.

- **Initial**
  - [60-69]
  - The writing task excludes some sections of the laboratory report. Information corresponding to a clearly identified section of a traditional laboratory report is included in other sections, creating confusion in the reader.

### Conventions of the laboratory report
Definition: Awareness of the social communicative purpose served by a laboratory report. Criterion: Ability to maintain a voice and tone appropriate to the purpose of a lab report.

- **Competent**
  - [100-90]
  - The stance or theoretical perspective of the author (use of third person) frequently fits the conventions established regarding the production of a scientific report. Only occasionally are there a few shifts from a distant to a more personal style, but these shifts are limited to two or three sentences in the whole report.

- **Functional**
  - [80-89]
  - The stance or theoretical perspective of the author (use of third person) frequently fits the conventions established regarding the production of a scientific report. There are regular shifts from a distant to a more personal style when presenting methodology, results, and conclusions. Register shifts (use of informal expressions) may affect the communicative purpose of the writing task.

- **Initial**
  - [60-69]
  - There are numerous shifts from a distant to more personal style of communicating information. Register shifts (use of informal expressions) affect the communicative purpose of the writing task.

- [50-59]
  - The report shows an absence of formal language. This is evidenced by the violation of register conventions regarding the use of a distant personal style (the writing task shares many characteristics with spoken language).
<table>
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<th>Criteria</th>
<th>Competent</th>
<th>Functional</th>
<th>Initial</th>
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| **Use of linguistic resources**  
Definition: Ability to select grammatical structures that communicate meanings clearly.  
Criteria: Precision in the choice of vocabulary and typical expressions of the genre.  
Cohesion: linguistic resources that provide the text with semantic unity. |  
[100-90]  
The report shows an outstanding use of syntactically complex grammatical structures and an accurate selection of vocabulary and expressions to communicate ideas with precision and correctness. A close examination of the task shows a wide use of a range of connectors to link information at the sentence and paragraph level to create a highly coherent piece of writing. | [80-89]  
There is a correct use of grammatical structures. The choice of vocabulary shows items not commonly used by native speakers in the context of a lab report in Astronomy, but they can be perfectly understood by any academic audience familiar with the issue being discussed. The writer makes use of a moderate variety of connectors to construct a coherent piece of writing. | [60-69]  
Most syntactic structures present strong interference from the student's mother tongue. The choice of vocabulary shows a poor selection of low frequency words and expressions in the area of Astronomy. The written task presents some local coherence. |
|  |  | [70-79]  
A large number of syntactic structures show interference from the student's mother tongue. The choice of vocabulary confirms a lack of precision and limited lexical resources due to elementary linguistic proficiency in the foreign language. Elementary linguistic proficiency in the L2 results in a limited use of connectors. | [50-59]  
Syntactic structures present strong interference from the student's mother tongue. The choice of vocabulary is limited to low frequency words and expressions. Most expressions correspond to direct translation from expressions in the writer's mother tongue. The text shows a minimum presence of connectors. |