

# Reading Preferences and Strategies Employed by Primary School Students: Gender, Socio-Cognitive and Citizenship Issues

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## Abstract

The purpose of the present study was to identify the correlation between gender and reading preferences and reading strategies employed by 5th and 6th Grade students of primary school in Greece. The main objectives of the present study were (1) to identify possible differences between male and female students in employing cognitive and metacognitive strategies, (2) to record the difficulties encountered by males and females when reading and (3) to highlight possible differences between male and female students in reading preferences. 405 Greek students (206 boys and 199 girls,  $M=11.21$  years old,  $SD.=0.47$ ) participated in the study and were asked to fill in a questionnaire including questions related to reading preferences and attitudes. In addition, 32 students from the total sample were asked to choose their favourite text to read and think aloud about the processes they followed and the strategies they used. The questionnaire results indicated significant differences between male and female students in reading preferences, since the female students showed a greater preference for 'human-interest' stories and male ones preferred to read comics and action-stories. The verbal data revealed the female students' flexibility in strategy use and their higher metacognitive awareness compared to male students. Reading, gender and social factors are discussed in the light of citizenship education.

**Keywords:** Reading preferences, Gender, Strategies, Citizenship, Education

## 1. Introduction

Citizenship education has been considered as a multidimensional and complex a context (Bauer, 2002), where the focus is on improving interpersonal and intercultural relationships and understanding each individuals' perspectives, preferences and responsibilities, as well as abolishing any gender bias and stereotypes (Galston, 2001; Santora, 2006). Gender stereotypes include information about physical appearance, attitudes and interests, social relations and occupations. As Witt (1997) points out, it is difficult for a child to grow to adulthood without experiencing some form of gender bias or stereotyping (Koutselini & Agathangelou, 2008). The values assigned to the male – female citizen are reproduced in school policies and practices in a variety of ways.

One of the most important goals of education is the preparation of both male and female students for their role as active citizens. This can be achieved through using approaches appropriate for (1) developing social responsibility, that is learning socially responsible behaviour in the classroom and (2) developing both genders' literacy skills and

communication. It has been showed that successful promotion of reading takes place mainly at school (Van Peer, 1991; Kraaykamp, 2001) and school-based reading activities promote students' identity as a 'reader', as well as their attitudes towards reading (Turner & Paris, 1995; McCarthy & Moje, 2002).

Reading is a sociocultural process, which is based on students' prior knowledge and it helps broadening students' experiences and knowledge developing a cultural identity and a personal sense of citizenship (Green, 2002). The family background and school context can influence students' preferences and contribute to shaping their reading attitudes and preferences (Myoungsoon & Heekyoung, 2002). Students' attitudes to reading can be influenced by their experiences, which can change over the primary school years and may be different between female and male students. Children bring their family and cultural values, experiences and beliefs as they begin schooling (Thomson, 2002; Comber, 2004). The importance of parent/family involvement has been highlighted as a basic factor that can help children improve reading by providing motivating and pleasurable experiences with books and literacy (Ellen, 1994). Research data have shown that parental involvement with reading activities at home has significant positive influences on students' interest in reading, and their attitudes towards reading classroom (Rowe, 1991); particularly, mothers become systematically responsible for the literary socialization of their children.

Students read to locate, select, and make use of relevant information from a variety of sources and recognize them as a record of human experience. Reading from a wide variety of texts provides students with information from diverse forms and perspectives. A lot of researchers have investigated and indicated differences between male and female students in reading preferences, reading performance and strategy use (e.g., Biigel & Buunk, 1996; Chavez, 2001). In addition, a number of studies have revealed gender differences in the amount of time devoted to reading (Gibbons, Lynn & Stiles, 1997). It has also been found that a higher percentage of girls indulge in leisure reading than boys (Abilock, 2002; Swalander & Taube, 2007). The female students show a more positive attitude to reading (see Swalander & Taube, 2007) and a preference for reading a variety of genres compared to male ones (Clark, Osborne & Akerman, 2008).

Concerning the text genres, it has been revealed that boys prefer adventure, science fiction and sports stories, while girls enjoy animal stories and stories about teenage problems (Simpson, 1998), as well as romance, friendship, animal stories and historical fiction. Shelly (1999) found that the 6<sup>th</sup> to 8<sup>th</sup> grade children have stronger preference for humour and horror stories, followed by mysteries, historical fiction, adventure and science fiction. Also, in Abilock's study (2002) it was revealed that the girls preferred to read books about both males and females, while the boys would choose fiction about males.

A great number of studies have focused on the cognitive aspects of reading (see for example Adams, 1990) and have stressed the need to consider the balance between cognitive and social aspects of reading and literacy (Guthrie & Wigfield, 2000). Moreover, the effect of gender on language strategy use has been thoroughly investigated (Green & Oxford, 1995; Chandler, Lizotte & Rowe, 1998; Griva & Alevriadou, 2009; Griva et al, 2009). Reading strategies (O'Malley & Chamot, 1990) have been classified into (1) cognitive, which involve direct interaction with the text and application of specific techniques that facilitate comprehension (Davis & Bistodeau, 1993) and (2) metacognitive strategies, which include knowledge of cognition and regulation of cognition (Carrel, 2005), help students monitor or regulate cognitive strategies (Oxford, 1990; Devine, 1993),.

A lot of studies (Oxford & Nyikos 1989; Chavez, 2001) found a wide range of gender differences in the frequency and flexibility of strategy use. Specifically, female students employ a variety of reading strategies in coming to terms with the text and 'dealing' with the comprehension of the messages of the text (Oxford & Nyikos, 1989; Pressley & Afflerbach, 1995; Singhal, 2001). On the other hand, in Lee's study (1994) it was revealed that girls showed more frequent use of cognitive, metacognitive and social strategies than boys in middle school, but not in high school and college.

Schools are to become an authentic environment, which makes room for students' preferences, interests, and developing their literacy skills. In such a context, the implications for reading instruction include the need to provide opportunities for every student to express their preferences and strategies, to encourage students' involvement in reading a variety of genres and to engage them in confronting differing perspectives.

In line with the abovementioned aspects, the present study aimed to investigate primary school students' reading preferences and interests, as well as the strategies they employ when reading. More precisely, it aimed at: (1) highlighting possible differences between male and female students in reading preferences; (2) identifying possible differences between male and female students in employing cognitive and metacognitive strategies; (3) recording the difficulties encountered by males and females when reading; (4) examining the possible influence of parents' education and occupation on students' reading behavior.

## 2. The Study

### 2.1 Sample

The sample consisted of a total of 405 fifth and sixth grade students (206 male students and 199 female students), aged between 10 and 12 ( $M=11.2$  years-old,  $SD=0.45$ ). Concerning their parents' education profile, the majority of fathers and mothers have a degree in higher education (table 1). As regards their parents' occupation, most of their mothers have a profession that can be regarded as a "low autonomy profession" (see Tables 1 & 2).

### 2.2 Methodology

The study was conducted through two basic phases:

In the *first phase*, a self-report questionnaire was administered to 405 students to fill. The questionnaire comprised three basic sections: (1) attitudes towards leisure reading; (2) preferences for text genres; (3) difficulties encountered while reading schoolbooks. It included 'Likert-type' questions: the students were asked to indicate their preferences with 16 attitudinal statements on a scale ranging from 1 (very much) to 4 (little).

The *second phase* of the study was conducted by using "think aloud" process and retrospective interviews as the basic instruments. 32 students (16 girls and 16 boys) were selected to participate in this phase. They were selected according to (a) their positive attitudes to reading indicated through their responses to the questionnaire (b) their performance in a reading text and (c) classroom teachers' records. Each student was exposed to five texts (of about 300 words): one gender-neutral text, two texts with a 'male' topic and two texts with a 'female' topic: (1) *nutrition*, (2) *football*, (3) *electronics*, (4) *ballet*, and (5) *fashion*.

The participants were asked to report on their thoughts while they were completing the reading task (Garner, 1987); they had to think aloud all the techniques and procedures they used, as well as the difficulties they encountered. Retrospective interviews were conducted with each of the students, after terminating their reading; they were asked to comment on their strategic processes retrospectively and to assess their performance in the reading tasks (Morrison, 1996).

### 2.3 Data Analysis

Data derived from the questionnaire were analyzed by using descriptive statistical methods. Frequencies and percentages for all items of the questionnaires were obtained. Moreover, the techniques of chi-square-test ( $\chi^2$ ) (Ind. Cramer's V), t-test, ANOVA were performed.

The verbal data underwent both qualitative and quantitative analysis: Data reduction resulted in groups of categories/sub-categories (table 7). In addition, frequencies and percentages for all categories/sub-categories were obtained. The techniques of chi-square-test ( $\chi^2$ ) and t-test were performed in order to identify differences in strategy use between male and female students.

## 3. Results

### 3.1 Questionnaire Results

#### 3.1.1 Out of School Reading Preferences

Regarding out of school reading, it was recorded that a higher percentage of female students indulge in leisure reading than male ones ( $\chi^2=75.022$ ,  $df=3$ ,  $p<.000$ ). Also, a greater number of girls stated that they spend money on buying books ( $\chi^2=31.065$ ,  $df=3$ ,  $p<.000$ ) and go to the lending library compared to boys ( $\chi^2=28.337$ ,  $df=3$ ,  $p<.000$ ). On the other hand, it was the boys who gave higher percentages in terms of preferring 'watching TV' to reading books ( $\chi^2=24.184$ ,  $df=3$ ,  $p<.000$ ) and 'playing computer games' to reading books ( $\chi^2=30.554$ ,  $df=3$ ,  $p<.000$ ) (table 3).

It is noteworthy that the interaction between mothers' occupation ( $\chi^2=21.667$ ,  $df=3$ ,  $p<.000$ ), mother's education ( $\chi^2=26.944$ ,  $df=3$ ,  $p<.000$ ) and children's leisure reading was significant, since the children whose mothers have a "high autonomy profession" and a university degree showed a higher preference for leisure reading. Moreover, fathers' education background ( $\chi^2=12.739$ ,  $df=3$ ,  $p<.005$ ) as well as fathers' occupation ( $\chi^2=33.584$ ,  $df=3$ ,  $p<.001$ ) proved to be significant factors: the higher the parents' education and occupation, the greater the children's reading preference.

In relation to going to the lending library, their mothers' occupational background ( $\chi^2=30.898$   $df=3$ ,  $p<.000$ ) and their fathers' occupational background ( $\chi^2=9.111$   $df=3$ ,  $p<.05$ ) proved to be significant: the higher the parents' education and occupation, the more positive was the children's attitudes to buying books.

Besides, the students' attitudes to buying books were influenced by their mothers' occupational ( $\chi^2=17.184$   $df=3$ ,  $p<.01$ ) and educational ( $\chi^2=9.201$ ,  $df=3$ ,  $p<.05$ ) background. Also, their fathers' educational background ( $\chi^2=12.461$

df=3,  $p < .01$ ) proved to be significant: the higher the parents' education and occupation, the more positive were the children's attitudes to buying books.

### 3.1.2 Preferred Types of Reading Texts

In the effort made to specify the students' preferred types of texts, it was revealed that the top three choices related to reading texts for both male and female students were the following: books with humorous stories (n=305), adventure books (n=248) and comics (n=196) (table 4). Statistically significant differences were revealed between male and female in relation to fairy tales ( $\chi^2=32.517$  df=3,  $p < .000$ ), comics ( $\chi^2=22.127$  df=3,  $p < .000$ ), sport magazines ( $\chi^2=106.653$  df=3,  $p < .000$ ), magazines (TV/music) ( $\chi^2= 51.220$  df=3,  $p < .000$ ) and poems ( $\chi^2= 42.097$ , df=3,  $p < .000$ ).

More precisely, sport magazines were ranked higher by male (n=106) than female students. In addition, male students showed a marked preference for comics (n=119) compared to female ones (n=77). On the other hand, female students showed a greater interest in magazines (TV/music) (n=66) and poems (n=42) (table 4). Furthermore, statistically significant differences resulted from mothers' occupational background in relation to students' preferences for reading 'poems' ( $\chi^2=20.701$ , df=3,  $p < .000$ ) and 'comics' ( $\chi^2=12.818$  df=3,  $p < .046$ ) (table 4).

### 3.1.3 Difficulties

With reference to the *difficulties* the students encountered while reading, it was declared that they face great difficulty in extensive reading, skimming the text for gist and learning a text by heart and understanding complex sentences/paragraphs (table 5). The frequency distribution of the data showed that the most difficult sub-skills were considered to be the following:

Most of the students rated 'learning a text by heart' highly in difficulty (64 boys and 73 girls), as they felt very anxious whenever they read a text and encountered comprehension problems. In addition, 'skimming the text for gist' was of high difficulty for a certain number of male (n=42) and female students (n=59). Complex/long sentences were declared to cause some problems to students to comprehend a text sufficiently. Significant differences were found between the two groups ( $\chi^2=12.014$ , df=3,  $p < .000$ ), since it was ranked higher by the female students. Besides, 'extensive reading' constitutes a major difficulty for the girls than the male students ( $\chi^2= 9.880$ , df=3,  $p < .05$ ).

As regards the difficulties students encountered with complex/long sentences and paragraphs in reading texts, their mothers' occupational background ( $\chi^2=20.271$ , df=3,  $p < .005$ ) as well as their fathers' occupational background ( $\chi^2=44.323$ , df=3,  $p < .000$ ) proved to be significant: the lower the parents' education profile and occupational background, the more difficulties the children encountered. In addition, mothers' occupational ( $\chi^2=14.867$ , df=3,  $p < .05$ ) and fathers' occupational ( $\chi^2=22.627$ , df=3,  $p < .005$ ) background proved to be significant in relation to the difficulties children encountered in skimming the text for gist for comprehension purposes.

## 3.2 Results of 'Think Aloud' Process

### 3.2.1 Preferred Reading Topics

Regarding students' preference for selecting two texts from a total of five texts to read and think aloud, the main effect of gender and topic of reading text (*nutrition, football, electronics, ballet and fashion*) was analyzed by using non-parametric test chi-square. Statistical significant differences were indicated in relation to genre selection ( $\chi^2=19.143$ , df=4,  $p < .001$ ). The two gender related topics *ballet* (38.5%) and *fashion* (30.8%) received the highest degree of preference mostly from female students. In addition, the students, irrespective their gender, showed interest in reading the text with 'neutral' topic (*nutrition*). However, a strong tension was revealed among male students to prefer reading two 'masculine' related topics: *football* (46.2%) and *electronics* (30.8%) (table 6).

### 3.2.2 Verbal Data

Students' verbal data, after being coded qualitatively, resulted into twenty three categories, which were grouped into three basic themes: (1) cognitive strategies, (2) metacognitive strategies, (3) text selection (table 7).

#### *Cognitive strategies*

The participants employed a significant number of *cognitive* strategies to facilitate reading and to make the text more comprehensible, like 'underlining', 'skimming', 'scanning', 'using imagery', 'finding key-words', 'placing words in the context', 'writing down unknown words', 'skipping the difficult parts', and 'consulting a dictionary' (table 8). Crosstabulation revealed statistically significant differences between male and female students in the following cognitive strategies.

1) 'Activating background knowledge' was used by the majority of the students in order to facilitate reading. However, the comparison between the two groups indicated statistically significant gender differences ( $\chi^2=5.098$ ).

df=2,  $p<.005$ ), since the vast majority of the female students employed the specific strategy more frequently and efficiently (92.3%) than the male students (61.5%).

2) A considerable number of the students made use of the title and the pictures before starting reading the text in order to make it comprehensible. As regards 'imagery', statistically significant differences were found between female and male students ( $x^2=6.992$ . df=2,  $p<.005$ ). Only 7.7 % of the boys used the pictures in order to facilitate comprehension in contrast to girls, who got involved in using imagery to facilitate reading comprehension (53.8%).

3) 'Guessing from the context' was employed with a high degree of flexibility and frequency by the majority of the students, irrespectively their gender (76.9% of the male and 61.5% of the female students).

4) 'Underlining' either key words/phrases or unknown words ( $x^2=6.671$ , df=2,  $p<.005$ ) was employed efficiently mostly by girls (61.6%). However, the boys showed little preference for 'underlining' (15.4%). Although a smaller number of students relied on 'decoding the words' for comprehension purposes, significant differences were found between the two subgroups ( $x^2=5.221$ . df=2,  $p<.005$ ); it was a more favourite strategy for the girls, since it was used by the girls either efficiently (23.1%) or in a partial effective way (23.1%) compared to the boys (15.4%) (table 8).

5) Both subgroups (male and female students) showed preference for skimming the text for the gist. More precisely, the majority of the girls were engaged in this process either efficiently (53.8%) or in a partial effective way (38.5%); also, a considerable number of the boys (53.8%) got involved in 'skimming' the text. Significant differences resulted from gender in relation to the following cognitive strategies, which proved to be the least favourite ones: (1) 'summarizing' ( $x^2=5.727$ . df=1,  $p<.005$ ) was used efficiently by 30.8% of the girls, but none of the boys was found to use it; (2) 'note taking' was used efficiently by 38.5% of the girls, meanwhile 100% of the boys did not get involved in it ( $x^2=5.983$ . df=1,  $p<.005$ ) (table 8).

#### *Metacognitive strategies*

From a total of five metacognitive strategies reported in the study, 'rereading' was the most favourite strategy among male (100%) and female students (92.3%). No significant relationship was found between 'rereading for clarifying certain points' and gender. Moreover, no significant differences were found between the two groups in relation to 'selective attention', since both boys and girls seemed to be less willing to be engaged in this strategy (table 9).

However, significant relations were revealed between 'reading comprehension control' and the two subgroups ( $x^2=6.196$  df=2,  $p<.005$ ); the female students got engaged in this strategy more efficiently (69.2%) than the male ones, who did not manage to use it in an effective way (38.5%). The female students had also significantly higher efficiency of awareness in 'identifying errors' and 'self correcting' than the male ones ( $x^2=5.295$  df=2,  $p<.005$ ).

It is worth mentioning that a considerable number of students showed a positive attitude towards evaluating their own reading, and both male and female students placed emphasis on improving the following subskills: (1) reading sentence by sentence, (2) prosodic reading and (3) rapid reading.

Moreover, the independent sample t-test indicated that there were statistically significant differences between the two subgroups (male and female students) in using both cognitive and metacognitive strategies ( $p<0.05$ ) (table 10).

#### **4. Discussion**

The present study replicates the findings of previous studies (Higginbotham, 1999; Brozo, 2002; Kim et al, 2002; Merisuo-Storm, 2006; Clark et al, 2008) by supporting the assumption that there is a relationship between gender and the reading attitudes, the types of texts students prefer to read, the amount of time allocated for leisure reading, as well as the flexibility in strategy use. Furthermore, the female students were recorded to make extensive use of a wider range of strategy repertoire and to show more strategic knowledge and flexibility in using both cognitive and metacognitive strategies. This is in accordance with the findings of much of the research published internationally (Green & Oxford, 1995; Chandler et al, 1998; Wharton, 2000; Griva & Alevriadou, 2009; Griva et al, 2009). It was also revealed that mothers' occupational and educational background proved to be significant, since it influenced and defined male and particularly female students' reading attitudes and text choice. It is widely accepted that stereotypical gender behaviour can be reinforced by daily activities, media, as well as school activities.

School plays a central part in citizenship education, since it is a social and cultural context, where students develop their literacy skills and cultural identity and a personal sense of citizenship. Primary school should offer experiences and opportunities to develop students reading skills and strategies, as well as to build successfully on their experiences with literacy. Every school should promote and increase parental involvement and participation in promoting the social and academic growth of the children by strengthening involvement in children's school and out of school reading. Developing collaborations between families and schools to promote reading success has a long-standing basis in research and is the focus of numerous educational programs (Hill & Taylor, 2004). In the

school context, both male and female teachers need to offer interesting reading material for both male and female students. A variety of text types and reading activities can influence students' reading attitudes and enhance their motivation to read at school (Perry, Nordby & VandeKamp, 2003). Reading material/activities can promote a more positive attitude towards reading, when adjusted to students' home and cultural experiences as well as to gender preferences.

In addition, students (especially the male ones) need to be explicitly taught effective ways and strategies to read texts in order to increase their intrinsic motivation (Guthrie et al., 1996; Walker, 2003). Thus, schools should follow a process-oriented approach aiming to: (1) promote reading awareness, accounting for students' linguistic and cognitive development and sociocultural background and (2) encourage their growth of metacognitive skills by training them into a variety of strategies (see Norris & Ortega, 2000; Hartman, 2001).

The development of male and female students' literacy skills must be viewed as a key to the development of primary school students' citizenship in the classroom. Teachers should decide on the ways and reasons of 'creating' citizens of a literary society and educate students for global citizenship (Tanner, 2007). Since reading could be considered as a critical-social practice in an education context that would prevent inequities between genders, the opportunities for developing students' reading skills should contribute to the process of educating them for being active and responsible citizens. This could be achieved through students' participation in a creative literacy context, which entails the idea of male and female students as cosmopolitan citizens (Osler, 2011).

## 5. Conclusion

The findings of the present study reflect trends in primary school student behavior and preferences, as well as their level of engagement with reading that are influenced by gender, societal and familial factors and educational practices at school (Miller, 2003; Willis, 2002).

The results may enable teachers to have an understanding of students' reading attitudes and preferences in order to adopt appropriate teaching practices, such as a) rich print environment with many resources, b) whole school approaches to developing reading skills, c) real-world activities (Friend & Kelly, 2005). Also, a large variety of texts available for reading could increase both male and female students' level of reading engagement into academic reading. Every effort should be made to enhance students' reading skills and their engagement with a wide range of reading texts, so as to develop students who cope with academically and socially and create citizens of a literary community that does not encourage biases and stereotypes.

Since 'reading and gender' in primary education remains an area open for research and discussion, several directions for future research could emerge considering sociocultural factors in a more rigorous way. Further research is needed to understand the associations between parental characteristics and reading to young children as well as teachers' attitudes and behaviour. This could contribute to the development of improved literacy interventions for young children and their families (Yarosz & Barnett, 2001).

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Table 1. Parents' education background

Parent education background	Father	Mother
Primary education	31 (7.7%)	15 (3.7%)
Secondary education	155 (38.3%)	136 (33.6%)
Tertiary education	219 (54.1%)	254 (62.7%)

Table 2. Parents' occupation background

Occupation	Father	Mother
Low autonomy profession	211 (52.1%)	274 (67.7%)
High autonomy profession	194 (47.9%)	131 (32.3%)

Table 3. Out of school reading preferences

Questions	very much (n)		much (n)		fairly (n)		very little (n)	
	boys	girls	boys	girls	boys	girls	boys	girls
I like leisure reading	17	78	83	62	75	59	31	-
I like buying books	12	32	30	46	126	112	38	9
I like going to the library	6	40	55	25	90	94	55	40
I prefer watching TV to reading books	105	91	58	27	34	60	9	21
I prefer computer games to reading books	104	80	61	33	27	70	14	16

Table 4. Preferred types of reading texts

Questions	very much (n)		much (n)		fairly (n)		very little (n)	
	boys	girls	boys	girls	boys	girls	boys	girls
Adventures	125	123	44	42	26	18	11	16
Fairytales	33	56	35	55	54	55	84	33
Comics	119	77	45	47	34	47	8	28
Funny stories	160	145	21	23	19	15	6	6
Sport magazines	106	16	35	32	27	32	38	119
Magazines (TV, fashion etc)	38	66	11	45	87	37	70	51
Poems	9	42	34	30	41	61	122	66

Table 5. Students' difficulties while reading school books

Questions	very much(n)		much (n)		fairly (n)		Very littl(n)	
	Boys	Girls	Boys	girls	boys	girls	Boys	Girls
Extensive reading	7	19	39	35	81	66	78	76
Skimming the text for gist	18	29	24	30	72	60	92	77
Learning a text by heart (unknown words)	23	26	41	47	69	72	73	51
Complex sentences/paragraphs	19	19	18	30	35	51	134	96

Table 6. Students' preferred topics of reading texts

	Text 1	Text 2	Text 3	Text 4	Text 5	Total
	<i>nutrition</i>	<i>football</i>	<i>electronics</i>	<i>ballet</i>	<i>fashion</i>	
Male	23.1%	46.2%	30.8%	-	-	100.0%
Female	30.8%	-	-	38.5%	30.8%	100.0 %
Total	26.9%	23.1%	15.4%	19.2%	15.4%	100.0%

Table 7. Categories and subcategories of cognitive and metacognitive strategies

Categories	Subcategories
Student profile	
1. TEXT SELECTION	<ul style="list-style-type: none"> <li>• Preference</li> <li>• Rejection</li> </ul>
2. COGNITIVE STRATEGIES	<ul style="list-style-type: none"> <li>• Skimming for gist</li> <li>• Scanning</li> <li>• Using titles</li> <li>• Imagery</li> <li>• Guessing from the context</li> <li>• Activating background knowledge</li> <li>• Using synonyms</li> <li>• Using a dictionary</li> <li>• Summarizing</li> <li>• Decoding words</li> <li>• Repeating a word/phrase</li> <li>• Underlining key words/phrases</li> <li>• Underlining unknown words</li> <li>• Skipping a word/phrase</li> <li>• Note taking</li> </ul>
3. METACOGNITIVE STRATEGIES	<ul style="list-style-type: none"> <li>• Selective attention</li> <li>• Prediction and verification</li> <li>• Control of reading comprehension</li> <li>• Rereading for overcoming difficulties</li> <li>• Error identification and self correction</li> </ul>

Table 8. Cognitive strategies employed by male and female students

Cognitive strategies	Male students			Female students		
	0	1	2	0	1	2
Skimming for gist	15.4%	30.8%	53.8%	7.7%	38.5%	53.8%
Scanning	-	53.8%	46.2%	7.7%	30.8%	61.5%
Using titles	-	7.7%	92.3%	-	15.4%	84.6%
Imagery	30.8%	61.5%	7.7%	7.7%	38.5%	53.8%
Guessing from the context	-	23.1%	76.9%	-	38.5%	61.5%
Activating background knowledge	15.4%	23.1%	61.5%	-	7.7%	92.3%
Using a dictionary	92.3%	7.7%	-	76.9%	23.1%	-
Summarizing	100%	-	-	69.2%	30.8%	-
Decoding words	84.6%	-	15.4%	53.8%	23.1%	23.1%
Underlining key words/phrases	84.6%	-	15.4%	38.5%	30.8%	30.8%
Skipping a word/phrase	46.2%	53.8%	-	69.2%	30.8%	-
Note taking	100%	-	-	61.5%	38.5%	-

Table 9. Metacognitive strategies employed by male and female students

Metacognitive strategies	Male students			Female students		
	0	1	2	0	1	2
Selective attention	76.9%	23.1%	-	84.6%	15.4%	-
Control of reading comprehension	38.5%	15.4%	46.2%	7.7%	23.1%	69.2%
Rereading for overcoming identified difficulties	-	-	100%	-	7.7%	92.3%
Prediction and verification	15.4%	53.8%	30.8%	-	69.2%	30.8%
Error Identification and Self correction	15.4%	84.6%	-	15.4%	46.2%	38.5%

Table 10. Mean scores in cognitive and metacognitive strategy use

Strategies	Male students	Female students
Cognitive	6.77 (SD 1.01)	8.26 (SD 1.96)
Metacognitive	3.84 (SD 0.69)	4.46 (SD 0.66)