Development in Writing at the End of Key Stage 2

Final Report to the ESRC

1. Background

The writing of primary school children in England has recently been the focus of national concerns (e.g. Beard, 2000, 2005; HMI, 2000; Ofsted, 2005). The concerns are focused on 'under-attainment' in writing, reflected in the national performance of eleven-year olds in comparison with their attainment in reading. Such concerns raise questions about what comprises development in writing and how it is measured. Furthermore, this is an issue on which relatively little rigorous research has been done in the primary age-range. This lack of research was pointed out during a 2003-4 ESRC-funded international seminar series, one of whose objectives was 'to identify aspects of pupil writing that are in need of further investigation'. In a consideration of the evidence base during the first seminar, it was argued that more needed to be done to investigate what constitutes progression and to conceptualise what that progression looks like (See

http://www.ioe.ac.uk/schools/ecpe/ReconceptualisingWriting5-16/seminars.html, Seminar 1 transcript, para. 49).

Various measures have been used in studies of primary/elementary children's writing development in recent years and these were detailed in the original Proposal. A number of related issues at secondary level have been investigated since the project began, at the University of Exeter (see http://www.people.ex.ac.uk/damyhill/writing.htm), particularly a 2003-5 ESRC Project on *The Linguistic and Compositional Characteristics of Secondary Children's Writing (Patterns and Processes)*. This research has analysed the language features of samples of secondary children's writing in order to describe qualitative differences according to ability, gender or age (see also Myhill, 2005).

The project being reported here makes an original contribution to the field by using a repeat design and standardised tasks which allow developments in specific features of writing to be rigorously investigated over a specific time-scale. The measures also address features that characterise specific genres as well as the more general linguistic features of writing that have been used in previous work.

2. Objectives

The aim of the research was to characterise the development of narrative and persuasive writing in a sample of primary school children. The objectives were as follows:

- 1. To profile the features of writing that typify Year 5 and Year 6 writing
- 2. To identify the features that present particular difficulty
- 3. To compare the writing of boys and girls
- 4. To compare the profile of Year 6 writing with the criteria for National Curriculum Level 4 or above (the 'expected' national test performance).

The aim and objectives remained unchanged through the course of the research. Objectives 1-3 above were addressed using the methods outlined in the original Proposal and were successfully achieved.

Objective 4 provided more challenge. While the broad criteria of National Curriculum Level 4 for Writing are found on http://www.qca.org.uk, the criteria are annually translated into national testing programmes by the independent body contracted for this work, currently the National Foundation for Educational Research (NFER), and the genres through which a number of strands of writing are assessed, on an unseen basis, may vary. While the tests used in this study were devised by the NFER, to assist teachers in assessing children's development within the National Curriculum, the genres that are used in the tests (imaginative narrative and persuasive description) are different from those in the national tests that the children in the study subsequently took: explanation and chronological report (DfES, 2004). In order to pursue this objective, further work is planned in collaboration with the NFER (see Impacts section below).

3. Methods

a. Sample

As described in the initial Proposal, the data-set for the study comprised 440 scripts completed by 112 children from the control group used in an evaluation of the *Further Literacy Support* (FLS) intervention programme, and its follow-up, funded by successive DfES grants. The group comprised all the Year 5 pupils (60 boys; 52 girls) from five schools representing a range of socio-economic catchments in two LEAs that were not included in the FLS evaluation.

The scripts comprised the NFER *Literacy Impact* Writing Test B, completed near the end of the children's second terms in Year 5 and Year 6. The test draws on content likely to appeal to both genders. The Marking Guide approximates to the Year 6 national test marking criteria at the time when the test was standardised and scaled. The reliability of *Literacy Impact* Writing Test B (Cronbach's Alpha) is reported as 0.87, considered to be suitably high for tests of this length and nature (Twist and Brill, 2000, pp. 63-65). Further details appear in the original Proposal.

b. Design

The scripts had been previously rated by a panel of experienced Key Stage 2 national test markers, trained in standardisation meetings led by a technical representative of the publishers, NFER-Nelson. Each member of the marking panel was responsible for all the scripts from a specific number of schools. In *Literacy Impact*, the assessment of writing is based on a numeric scheme applied to five constituents of writing. The aggregate raw scores may then be converted to a scaled score which equates to a National Curriculum level.

In order to rate text-level features of narrative and persuasive description, dichotomous scales were derived from relevant sources (Wyatt-Smith, 1997; DfEE, 2000; DfES, 2002; QCA, 2003; Cameron and Besser, 2004) and

extensively trialled and refined. Items were also included on spelling and whether there was evidence of planning and self-correction.

Most of the data in the rating scales are dichotomous and examine whether a feature is present or not. The three raters also had extensive national test marking experience (See Annexes 1a and 1b.)

In order to rate more general linguistic features of technical accuracy and sentence grammar, rating scales for 100-word samples were derived from recent studies in the field, especially Cameron and Besser (2004), and also extensively trialled and refined. The two raters were doctoral students from a university linguistics department (See Annexes 1c and 1d.)

c. Inter-rater reliability and scale refinement

To help improve inter-rater reliability during rater training, and to refine the scales, an approach was used similar to the one used by Cameron and Besser (2004). Moderation trials were carried out on sets of ten randomly selected scripts. After each trial, discrepancies were noted and discussed with each panel.

In the main rating exercise, Cronbach's Alpha for the 12 technical accuracy items for the narrative task was 0.49 (Year 5 data) and 0.56 (Year 6 data). Across the 41 text-level (dichotomous) items in the narrative task, the Kuder Richardson coefficient was 0.76 (Year 5 data) and 0.69 (Year 6 data). It was not felt appropriate to undertake this calculation for the persuasive task items, as many texts were shorter than the 100 word sample specified in the research design. To check on the inter-rater reliability for this task, each rater received the same three, randomly selected, scripts without knowing that these were being used for the inter-rater check. Reliability across raters was calculated for each feature within the main categories of the scale by dividing the number of agreements by the number of ratings. For the linguistic features of the persuasive task, the mean agreement across all categories was 0.66 and for the text-level features 0.86. For the sentence grammar items of the narrative task, the mean agreement was 0.60. Findings in relation to features with low levels of agreement are being reported with caution.

d. Coding

Confidentiality of pupil names during rating and coding was maintained in the coding exercise by the removal of the cover sheets from photocopies of the *Literacy Impact* booklets and the addition of specially coded labels.

Entries for the quantitative data-set were coded as follows:

- (i) the *Literacy Impact* raw scores for the five constituents of writing referred to above.
- (ii) Dichotomous text-level entries for narrative texts (including seven spelling, planning and editing variables); dichotomous text-level entries for persuasive description texts (including seven spelling, planning and editing variables).

(iii) Predominantly numerical entries for linguistic features (technical accuracy and sentence grammar) in narrative texts (also including total text length); predominantly numerical entries for linguistic features in persuasive description texts (also including total text length and number of incorrect spellings).

The Year 6 national test scores for the pupils were also collected from the five schools, following clearance from the DfES, and these were added to the data-set for cross-referencing purposes. The writing level was obtained for 99 pupils, the reading for 104 pupils and overall English for 105 pupils.

e. Quantitative Analysis

i Literacy Impact raw scores

In order to obtain a general indication of Year 5-Year 6 changes, comparisons were made between the Y5 and Y6 *Literacy Impact* raw scores for the five constituents of writing and their aggregates. Gender differences between the Year 5 and Year 6 scripts were tested for, using the paired t-test.

Comparisons of the writing features in Level 4 or above, Level 3/4 and Level 3 or below attainment bands, as identified by the *Literacy Impact* scaled scores, were undertaken in the qualitative phase.

ii The text-level ratings for narrative and persuasive description tasks

The tasks completed in Year 5 and Year 6 respectively were analysed as follows:

percentages of pupils whose texts included the features included in the rating scales:

binomial analysis of the dichotomous text-level data to test for significant differences in proportion;

Chi squared analysis for each item in the rating scales to investigate the numbers of pupils whose writing included a feature in Year 5 but not in Year 6 and vice versa.

iii Interval data from the linguistic features of texts

Significant differences between the Year 5 and Year 6 scripts were tested for, using the paired t-test.

f. Qualitative Analysis

Sub-samples of scripts from each attainment band and gender group were read by the researchers in order to triangulate the quantitative analyses and to describe and document holistic features of content, language use and overall effectiveness.

The sub-samples comprised the scripts from the pupils whose writing was, according to *Literacy Impact* scores,

rated highest in Year 6 (13);

showed the greatest gains between Year 5 and Year 6 (13);

rated lowest in Year 6 (12);

showed the greatest decreases in scores between Year 5 and Year 6 (14).

Pro formas were constructed from the relevant literature, independently trialled by the Principal Award Holder and the Research Assistant with a subsample of scripts and then discussed and further refined (See Annexes 2a and 2b).

g. User Participation

All five schools agreed to be involved in the project and a half-day briefing meeting was held with school representatives (Year 5 or Year 6 class teachers) just before the project began. The original teachers were contacted again at the end of the qualitative phase so that they could comment on the findings from their school and also on a summary of the results as a whole. All five teachers provided emailed responses and two also provided further comments by telephone.

4. Results Quantitative Analysis

i Literacy Impact raw scores

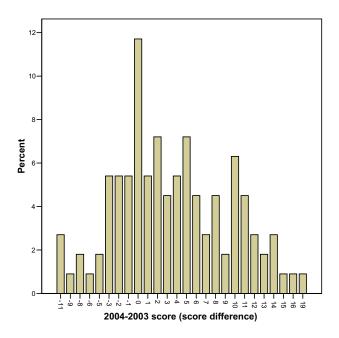
Both the mean and the median increased between Year 5 and Year 6, indicating that overall performance on these tests had improved.

Table 1 Summary statistics for Year 5 and Year 6 Literacy Impact tests

	Year 5 (n=111)	Year 6 (n=112)
Mean	15.80	19.07
Median	14.00	19.00

Fig 1 shows that the majority of pupils showed an improvement from Year 5 to Year 6.

Fig 1 Distribution of score difference Year 6 - Year 5 (n=111)



Of the 111 pupils in the sample that completed the tests in both years, 27 (24.3%) achieved a lower score in the second year, 13 (11.7%) showed no change, and 71 (64.0%) showed an improvement in their score. Table 2 shows that there was an improvement in all categories and Table 3 shows where girls scored significantly higher. Boys did not score significantly higher in any category.

<u>Table 2 Mean score in each category for Year 5 and Year 6 (n=111 for Year 5 and 112 for Year 6)</u>

Category	Mean score for Year 5	Mean score for Year 6
Purpose and Organisation in	3.54	4.21
Persuasion (out of 6)		
Purpose and Organisation in	4.66	5.54
Narrative (out of 9)		
Grammar, Vocabulary and	3.28	3.87
Style (out of 6)		
Punctuation (out of 3)	1.26	1.94
Spelling (out of 3)	1.71	1.96
Handwriting (out of 3)	1.35	1.57

Table 3 Gender Comparisons for *Literacy Impact* tests

Girls achieved significantly higher in

Cind domeved digrimodrity riigher in	
Year 5	Year 6
the test as a whole	the test as a whole
purpose and organisation in narrative	purpose and organisation in both genres
	grammar, vocabulary and style
punctuation	punctuation
handwriting	

ii The text-level ratings for narrative and persuasive description tasks

<u>Text-level features in narrative texts: pupil sample as a whole</u>

The following comments address the positive differences that were found to be significant from the use of the binomial analysis. The full range of results is listed in Annex 3.

Attention to the specified story prompt

When the children were in Year 5, 70.3% of the scripts were rated as accurate in attending to the specified story prompt; in Year 6, this had increased to 87.3% of the sample (p > 0.001).

Ability to write in style appropriate to audience and purpose Table 4 in Annex 4 indicates that there was also an increase in the percentage of all the other items (2-8). Two features showed most increase: awareness of reader (+12.4%, p < 0.05) and clear evidence of purpose (attempts to engage reader) (+16.9%, p < 0.01). A significant increase was also found in key events portrayed from Alex's point of view (+8%, p = 0.05).

Ability to select and sequence information in the format of a story As can be seen in Table 5 in Annex 4, the two features that increased most were the use of dialogue as a strategy used to elaborate on the resolution of the narrative (+18.4%, p < 0.01) and the amount of narrative structure related to the main event (+16.7%, p < 0.05). Other significant increases were found in the use of action to develop character (+11.5%, p = 0.05) and the use of action to develop the main event (+14.1%, p < 0.05).

Ability to construct paragraphs

As can be seen in Table 6 in Annex 4, when in Year 6, children were more likely to demonstrate the use of well-organised paragraphs (+22.2%, p = 0.001. The children were also more likely to use more paragraphs in Year 6, as shown in Table 7 in Annex 4.

Ability to link narrative

Table 8 in Annex 4 indicates that the feature that increased most within this section was the ability to use connectives to inject suspense into the narrative (+11%, p < 0.05).

Ability to choose words that enhance the writing

As indicated in Table 9 in Annex 4, there was a notable increase in the use of exclamations for impact in the Year 6 scripts (+19.5%, p < 0.01). Significant increases were found in use of adventurous vocabulary to add interest to the writing (+15.1%, p < 0.05) and verbs used to emphasise action, thoughts or feelings (+17.7%, p < 0.01). The three features that increased most were the use of exclamations for impact (+19.5%, p < 0.005), the use of verbs to emphasise action, thoughts or feelings (+17.7%, p < 0.01) and the use of adventurous vocabulary to add interest to the writing (+14.9%, p < 0.05).

Ability to plan and self-correct

There was very limited evidence of planning. This might be due to the actual test design that does not include an explicit planning stage, unlike more recent national test writing assessments.

Chi squared analysis was used for each item in the rating scales to investigate the numbers of pupils whose writing included a feature in one year but not the other. The analysis revealed an 'ebb and flow' profile, with substantial proportions of children including some features in Year 5 but not in Year 6 and vice versa (see Annex 5).

Text-level features in narrative texts: changes by gender

Positive differences that were found to be significant from the use of the binomial analysis within gender groups are shown in Table 10 below.

Table 10 Changes in text-level features in narrative texts by gender

Significant gains by boys	Significant gains by girls
attention to specified story prompt (p < 0.01)	the use of description as a strategy to
	elaborate on the main event (p < 0.05)
clear evidence of purpose (attempts to	well-organised paragraphs (p < 0.05)
engage reader) (p < 0.05)	
the use of description as a strategy to	the use of description as a strategy to
elaborate on the main event (p < 0.05)	elaborate on character (p < 0.05)
the use of dialogue as a strategy to	the use of exclamations for impact (p < 0.05)
elaborate on the resolution (p = 0.01)	the dee of exciding ter impact (p = e/ce)
a coherent ending in plot resolution (p <	
0.05)	
well-organised paragraphs (p < 0.05)	
connectives used to inject suspense (p <	
0.05)	
use of adventurous vocabulary to add	
interest to the writing (p < 0.05)	
the use of verbs to emphasise action,	
thoughts or feelings (p < 0.01)	

<u>Text-level features in persuasive texts: pupil sample as a whole</u> In Year 5, 80% of the scripts were rated as accurate in 'Attention to task'; in Year 6, this had increased to 90.1%, p < 0.05).

Ability to write in a style appropriate to audience and purpose Table 11 in Annex 4 indicates that there was also an increase in the percentage of all the other items under this heading, with the exception of writing with a consistent focus on persuasion. Two features show most increase: advertisement form maintained (+12.1%, p = 0.05) and use of bold type and/or capital letters to add emphasis (+11.6%, p < 0.05).

Ability to select and sequence information in the format of persuasive writing Table 12 in Annex 4 indicates that there was an increase in the percentage of all the items in this section, apart from the item regarding the inclusion of the name of the product. Four features increased significantly more than the others. These were the development of persuasive points (+17.6%, p < 0.01), the inclusion of a series of persuasive points (+13.9%, p < 0.05), snappy summary of the information given (+12.4%, p < 0.05), and the use of precise information (+11.3%, p < 0.05). Other increases of note were description of the dessert's features (+6.4%, p < 0.05) and memorable ('take home') message (+12.2%, p < 0.069 NS).

Ability to construct paragraphs, use a variety of sentences and link ideas Table 13 in Annex 4 indicates that there were increases in the presence of all features in the Year 6 assessment, although none were significant.

Ability to choose words which enhance the writing

Table 14 in Annex 4 indicates that there was an increase in the percentage of all the items in this section apart from the use of exaggeration, which decreased slightly. The feature to record the most increase is the use of verb phrases (+13.2%, p = 0.05). Notable increases were also observed for the use of word play (+10.5%, NS) and the use of noun phrases (+9.2%, p < 0.05).

Ability to plan and self-correct

There was very limited evidence of planning although there was evidence from most children of some editing, proof reading and self-correction, and this had increased by Year 6.

Chi squared analysis was used for each item in the rating scales to investigate the numbers of pupils whose writing included a feature in one year but not the other. The analysis again revealed an 'ebb and flow' profile, with substantial proportions of children including some features in Year 5 but not in Year 6 and vice versa (see Annex 5).

Text-level features in persuasive texts: changes by gender

Positive differences that were found to be significant from the use of the binomial analysis within gender groups are shown in Table 15 below.

Table 15 Changes in text-level features in persuasive texts by gender

Boys showed significant gains in	Girls showed significant gains in
description of the dessert's features (p < 0.05)	attention to task purpose (p < 0.05)
	conversational relationship with audience (style / tone) (p < 0.053)
	inclusion of a series of persuasive points (p < 0.05)
	development of persuasive points (p < 0.01)
	use of noun phrases (p < 0.05)
	use of verb phrases (p < 0.05)

Other gains that were close to significance are shown in Annex 6.

iii interval data from the linguistic features of narrative texts:

Technical accuracy and sentence grammar: pupil sample as a whole

The texts were longer	(p < 0.01).
There were more missing commas	(p < 0.01).
There were fewer inverted commas in the wrong place	(p < 0.05).
There were fewer spelling errors	(p < 0.05).
There were more noun-pronoun errors	(p < 0.05).
There were more non-finite clauses used for subordination	(p < 0.05).

Differences between another 18 features approached significance and could conceivably reach significance in a replicated study with a larger sample (see Annex 7).

The significant results corroborate findings on total text length (word count) in previous studies. The increase in the number of missing commas and noun-pronoun errors could conceivably reflect increases in text length and structure not being combined with the necessary re-reading in a time-controlled task. Tables 16 and 17 show the changes by gender.

Tables 16 and 17 Technical accuracy and sentence grammar: changes by gender

Во	pys	Gi	rls
Year 5 boys' texts had significantly more inverted commas in the wrong places	Year 6 significantly more full stops missing	Year 5 were significantly longer	Year 6
more missing prepositions	more noun-pronoun errors	significantly more full stops to close speech in the wrong places	
more errors in non- finite subordination	more plural form errors		
	more missing prepositions		
	more relative clauses in the subject slot		
	more errors in relative clauses in the adverbial slot		

Year 5 - Year 6 Comparisons

Teal 3 - Teal	o Compansons
Boys	Girls
Significantly longer texts	Same length in Year 5 as in Year 6
Significant reduction in the number of	Fewer incorrect spellings
missing commas	
Significantly fewer inverted commas in the	Fewer relative clauses in the subject slot
wrong places	
More noun-pronoun errors	
More plural form errors	
More non-finite subordination	
More errors in non-finite subordination	
Fewer errors in relative clauses in the	
subject slot	
More errors in relative clauses in the	
adverbial slot	
More single nouns in the Subject Noun	
Phrase.	

It should be noted, however, that the majority of the above means were low (less than one).

Qualitative Analysis

The main findings from the qualitative analysis are set out in Tables 18-23 below.

Table 18 Imaginative Narrative: What characterised high attainment?

Overall effectiveness of imaginative narrative	Consistent narrative structure Frequent use of dialogue Series of paragraphs
Content	Attention to the specified story prompt Focus on Alex's [main character] anticipation and subsequent reaction to the free gift
Language use	Third person / past tense used consistently Dialogue in different tense Stylistic choices employed to draw the reader into events Appropriate and adventurous vocabulary to emphasise actions, thoughts and feelings
Other	Length often about 300 words Handwriting joined and usually fluent Punctuation reasonably secure

Table 19 Imaginative Narrative: What characterised consistently low attainment?

Overall effectiveness of imaginative narrative	Limited information about setting and characters Little attempt to organise the narrative into paragraphs No / limited use of dialogue Incomplete / rather abrupt ending
Content .	Attention to specified story prompt
Language use	Third person / past tense used consistently
	Only time-related connectives
	•
Other	Length often below 200 words
	Handwriting a mixture of print and joined
	Punctuation often missing / limited in use

Table 20 Imaginative Narrative: What characterised high gains?

Overall effectiveness of imaginative narrative	More features of narrative structure (e.g. initial setting with sequence of events in chronological order) Greater use of paragraphing More direct speech More developed interaction between characters
Content	Improved attention to specified story prompt
	Greater focus on Alex's reaction to the gift
Language use	Third person / past tense used more consistently
	Dialogue in different tense
	Greater use of connectives
	Vocabulary used more to emphasise action, thoughts or feelings
Other	Increase in word length
Other	Improved handwriting - mostly joined and fluent
	· · · · · · · · · · · · · · · · · · ·
	Improved and increased use of punctuation

Table 21 Imaginative Narrative: What characterised writing in which scores decreased?

Overall effectiveness of imaginative narrative	Reduced use of dialogue
Content	Less focus on Alex's reaction to the gift
Language use	Fewer examples of vocabulary used to emphasise action, thoughts or feelings
Other	Reduction in word length
	More missing punctuation

Table 22 Persuasive Description: What characterised high attainment?

Overall effectiveness of persuasive description	Clear organisational structure Consistent persuasive appeal Direct appeal to the reader Lively, animated and confident style Frequent use of underlining, capitals, brackets and exclamations for effect
Content	Description of ingredients and consumer appeal Key information on ingredients, features, consumer appeal and availability
Language use	Frequent use of descriptive vocabulary Adventurous choice of adjectives and verbs Frequent use of word play Advertisement-style language - including some use of hyperbole Vocabulary chosen for strong persuasive effect Use of complex sentences
Other	Longer than average texts

<u>Table 23 Persuasive Description: What characterised consistently low attainment?</u>

Overall effectiveness of persuasive description	Limited use of the organisational features of persuasive genre Style not particularly persuasive Less likely to include direct appeal Writing repetitive in places Less likely to use underlining, capitals, brackets and exclamations for effect
Content	Emphasis on descert's ingradients
Content	Emphasis on dessert's ingredients Some key information omitted
	Less likely to include some information on value for money or customer satisfaction
Language use	Limited use of descriptive vocabulary
	Limited evidence of expanded description
Other	Low mean length - 67 words Handwriting often a mixture of print and joined; or only print Capital letters and full stops not always used; other forms of punctuation often missing or incorrectly used

Table 24 Persuasive Description: What characterised high gains?

Overall effectiveness of persuasive description	Increased organisational structure and sense of audience More consistent persuasive style More convincing direct appeal to reader Increased use of underlining, capitals, brackets and exclamations for effect
Content	More detailed description of ingredients, integrated with consistent persuasive appeal Increase in amount of key information (ingredients, features, consumer appeal, availability)
Language use	Vocabulary more appropriately chosen to add interest and for persuasive effect Expanded descriptive detail and adjectives used for strong persuasive appeal Advertisement type language - including some use of hyperbole More complex sentence constructions
Other	Increased word length

Table 25 Persuasive Description: What characterised writing in which scores decreased?

Overall effectiveness of persuasive description	Less use of concluding appeal Less direct appeal to the reader Persuasive appeal not always so consistent Less use of underlining, capitals, brackets and exclamations for effect
Content	More a description of the dessert
	Relatively more focus more on ingredients
Language use	Reduction in use of expanded description
	Reduction in use of word play
Other	Reduction in word length

Performance was generally consistent with subsequent national test scores and schools were able to provide additional information on individual performances which will be used in subsequent publications.

5. Activities

Refereed presentations have been made in line with the original Proposal: BAAL/IRAAL Conference at the University of Cork, September 2006 (See *Society Today* entry);

EARLI-Writing SIG, University of Antwerp, September 2006;

BERA, University of London, September 2007;

National Reading Conference, Los Angeles, November 2006.

Proposals have also been refereed and accepted for:

National Reading Conference, Austin, November 2007;

Writing Research Across Borders Conference, Santa Barbara, February 2008.

6. Outputs

Further proposal are being prepared for the following international conferences: EARLI-Writing SIG, Lund, June 2008; EARLI-Assessment SIG, Potsdam, August 2008.

Several papers are being prepared for submission to appropriate international journals.

The study will also be discussed in the forthcoming international *Handbook of Writing Development* (Sage) of which the PAH is lead editor.

Articles are being submitted to the *Primary English Magazine* and other professional outlets.

Requests for details of the Final Report have come from academics in Australia (Beverly Derewianka) and New Zealand (Libby Limbrick).

7. Impacts

A summary of the findings has been discussed with Dr Marian Sainsbury, Head of Literacy Assessment Research at the National Foundation for Educational Research (NFER) and Dr Liz Twist, Principal Research Officer at the NFER and co-author of the *Literacy Impact* test. These colleagues have subsequently secured the agreement of the QCA to provide the PAH with the NFER analysis of the 2004 KS2 Writing National Writing Tests. This will provide opportunities for further investigation of developmental features across the respective data-sets, particularly the issue of the influences of genre variation in the strands of writing that are currently the focus of NC assessments.

Links and common issues with the Exeter project *The Linguistic and Compositional Characteristics of Secondary Children's Writing (Patterns and Processes)* will be explored in publications based on the project being reported here.

8. Future Research Priorities

This study is, to the best of our knowledge, the first to have used a repeat design and standardised tasks that allow developments in specific constituents of primary school children's writing to be investigated over a specific time-scale. While there were some developments in features of sentence grammar and technical accuracy, a more consistent and positive range of results were found in the text-level ratings. These results indicate the empirical gains that are possible when established applied linguistics concepts are used to inform new kinds of analysis. The study also had a number of limitations, particularly in its relatively small sample and in the arbitrary nature of the tasks. Teaching was not studied, although schools reported that it was in line with the National Literacy Strategy.

The data-set will be further interrogated when additional papers are prepared for publication. The study has also suggested several lines for future writing research:

- which features of writing characterise development in genres other than narrative and persuasive description;
- which features in the 'ebb and flow' profiles (see pp. 21, 23 and Annex
 5) secure the basis for subsequent, 'incremental' development in different genres;
- the extent to which boys' under-attainment in writing varies with genre;
- which practices are most effective in fostering writing development in different genres.

The study has indicated how little is known about some aspects of writing development and the complexities of investigating it; these issues raise important challenges to educators and policy makers when addressing national programmes of curriculum and assessment.

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Educational rater:

Development in Writing at the End of Key Stage 2

Annex 1a Rating Sheet for Long Task (Educational Raters)

Script #:

1. Analysis of writer's ability to construct a narrative						
Ability to write in a style appropriate to audience and purpose						
			Accura	ate	Proble	ems
Attention to specified story prompt [1]						
Style is appropriate to audience and purpose			Yes		No	
Narrative form is maintained [2]						
Awareness of reader [3]						
Clear evidence of purpose (attempts to engage reader) [4]						
(e.g. could include humour, irony)						
Third person used consistently [5]						
Past tense used consistently [6]						
					_	
Viewpoint			Yes		No	
Key events portrayed from Alex's point of view [7]						
Viewpoint well controlled [8]						
(i.e. the narrator comments, e.g., about a character / event)						
Ability to select and sequence information in the format of a story	Ĺ					
			None	or	Develo	oped
Amount of narrative structure			minim	al		
Setting [9]						
Character [10]						
Main event [11]						
(i.e. Alex opening the box)						
Resolution [12]						
	Action		Dialogue		Description	
Strategies used to elaborate narrative	Yes	No	Yes	No	Yes	No
Setting [13 - 15] (1 or more examples)						
Character [16 - 18] (1 or more examples)						
Main event [19 - 21] (1 or more examples)						
(i.e. Alex opening the box)						
Resolution [22 - 24] (1 or more examples)						
Plot resolution			Yes		No	
Is there a coherent ending? [25]						
Concluding comment linked to resolution [26]						

Ability to construct paragraphs

Ideas organised into paragraphs			Yes	No	
Well organised paragraphs [27]					
Opening paragraph establishes narrative purpose [28]					
Nature of paragraphing none many short			2-3	4-5	

Nature of paragraphing	none	many short	2-3	4-5
How many paragraphs does the writer				
use? [29]				

Ability to link the narrative

Use of connectives	Yes	No
Connectives that signal time (2 or more examples) [30]		
(e.g. first thing, later that day, early that morning)		
Connectives used to shift attention (1 or more examples) [31]		
(e.g. meanwhile, at that very moment)		
Connectives used to inject suspense (1 or more examples) [32]		
(e.g. suddenly, without warning)		

Ability to choose words which enhance the writing

Stylistic choices focus on narrative appeal	Yes	No
Exclamations used for impact [33]		
(e.g. capitalisation, sentence form)		
Questions used to draw the reader into events [34]		
(e.g. Where should they look now?)		
Dialogue in different tenses [35]		
Some use of repetitive structures [36]		
(e.g. Alex ran, the boy ran, but)		
Was information withheld to build suspense? [37]		

Vocabulary chosen for narrative <u>impact</u> on reader	Yes	No
Use of adventurous vocabulary adds interest to the writing [38] (2 or more		
examples)		
Verbs used to emphasise action, thoughts or feelings [39]		

Ability to control the mechanical skills of writing

Spelling errors (correct spelling in brackets)

Error 1	Error 2	Error 3	Error 4

(Please indicate if you are unable to identify four spelling errors in the script)

Nature of spelling errors

Random	Invented	Weaker plausible	Stronger plausible
[40]	[41]	[42]	[43]

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Ability to do process writing

Evidence of planning and editing	Yes	No
Planning [44]		
Self correction / Editing / Proof-reading [45]		
(2 or more examples of self correction)		

Other - please mention anything else you may have noticed

[46]

Development in Writing at the End of Key Stage 2

Annex 1b Rating Sheet for Short Task (Educational Raters)

Educational rater:	Script #:			
2. Analysis of writer's ability to construct text for persuasive purpose				
Ability to write in a style appropriate to audience and purpose	1	r =		
	Accurate	Problems		
Attention to task purpose [1]				
	T			
Style appropriate to audience and purpose	Yes	No		
Advertisement form is maintained [2]				
Addresses reader [3]				
Clear evidence of purpose (attempts to convince reader) [4]				
Consistent focus on persuasion [5]				
Simple present tense [6]				
Use of bold type and/or CAPITAL letters to add emphasis [7]				
Viewpoint	Yes	No		
Clear and consistent viewpoint established [8]				
Conversational relationship with audience (style / tone) [9]				
Content included to impress audience [10]				
Speaker's knowledge is established / authoritative voice [11]				
		•		
Ability to select and sequence information in the format of persuasive writing				
Stage 1: Attracting Attention				
Opening sentence / phrase	Yes	No		
Opens with a sentence or phrase that aims to capture the audience's attention				
('hook') [12]				
	,			
Nature of 'hook'	Yes	No		
A little drama [13]				
A story [14]				
A problem in need of a solution [15]				
Stage 2: The Information	į			
Key information about the product	Yes	No		
Is the information precise? [16]				
Is the information given relevant? [17]				
Overview of product with appropriate supporting detail	Yes	No		
Name of product [18]				
Description of dessert's features [19]				
Nominated audience (Who is the product for?) customers, children, adults, ice				
cream lovers [20]				
Availability of product (Where can you get it?) [21]	1			

Explanation of its appeal to the audience (What does it do for you?) (Why shou	ld	
you buy it?) [22]		
A series of persuasive points [23]		
Development of above points by adding more detail [24]		
Store 2: The Slores		
Stage 3: The Slogan		T NI.
Managed In (tales have 2) managed [OF]	Yes	No
Memorable ('take home') message [25]		
Concluding appeal to the reader [26]		
Snappy summary of the information given [27]		
Stage 4: The Small Print (optional)		
otago II. Tilo omaii Tilik (optional)	Yes	No
Inclusion of small print [28]	100	110
modelon of officer print [20]		
Ability to construct paragraphs		
Use paragraphs to organise ideas	Yes	No
Well organised paragraphs [29]		
Opening paragraph establishes persuasive purpose [30]		
L		
Ability to use a variety of sentences		
Use of sentences	Yes	No
Effective use is made of a variety of sentence types [31]		
Uses a mixture of long and short sentences for effect [32]		
Ability to link ideas		
1.1.		
Linking of ideas	Yes	No
Coherent / ordered linking of ideas [33]		
Mainly logical connectives [34]		
Ability to choose words which enhance the writing		
Ability to choose words which enhance the whiting		
Stylistic choices focus on persuasive appeal	Yes	No
Snappy slogan [35]		
Exaggeration [36]		
Intriguing question - to catch reader's attention [37]		
Adjectives / adverbs for emphasising [38]		
Wordplay (linguistic patterning, alliteration, figurative language) [39]		
Tempting description of the benefits of the product [40]		
		L
Vocabulary chosen for persuasive effect	Yes	No
Noun phrases [41]		
Adverbials [42]		
Verb phrases [43]		
<u> </u>		

Ability to control the mechanical skills of writing

Spelling errors (correct spelling in brackets)

Error 1	Error 2	Error 3	Error 4

Nature of spelling errors

Random	Invented	Weaker plausible	Stronger plausible
[44]	[45]	[46]	[47]

Ability to do process writing

Evidence of planning and editing	Yes	No
Planning [48]		
Editing / Proof-reading / Self correction [49]		

Other - please mention anything else you may have noticed

[50]

Development in Writing at the End of Key Stage 2

Annex 1c Rating Sheet for Long Task (Linguistics Raters)

Linguistics rater:	Script #:	
Technical accuracy Punctuation		
Commas (100 word section)	Number used in wrong places:	
, ,	Number missing:	
Commas, used to mark direct speech (100	Number used in wrong places:	
word section)		
	Number missing:	
Full stops/ other marks used to close direct	Number used in wrong places:	
speech (100 word)		
	Number missing:	
Full stops (100 word section)	Number used in wrong places:	
	Number missing:	
Inverted commas (100 word section)	Number used in wrong places:	
inverted commas (100 word section)	Number used in wrong places. Number missing:	
Other punctuation problems (list here and note	Total other errors:	
number of errors) (100 words)		
Spelling		
Incorrect spelling (100 word section)	Number of incorrect spellings:	
List any instances of errors relating to cultural		
influences:		
Grammatical errors Agreements		
Subject- verb (100 word section)	Number of errors:	
Noun-pronoun (100 word section)		
Plural forms (100 word section)		
Verb forms		
Incorrect verb form (100 word section)	Number of errors:	
Articles		
Article usage (100 word section)	Number used incorrectly or in wrong places:	
	Number missing:	
Prepositions		
Preposition usage (100 word section)	Number used in wrong places:	
	Number missing:	

Formulaic phraseology

Errors in formulaic phrases/ non-native-like		No. of instances	
phraseology (100 words)			
List any instances:			
List any instances you may have spotted outside the	e 100 words:		
Sentence grammar			
Types of clauses used			
Main clauses (100 word section)	Num	ber of each type:	T
Subordinate clauses (100 word section)	rvarm	oor or cuon type.	
Substantate clauses (100 word section)			
Types of subordination used		Correct Usage	Attempted/Syn
N. f. (Non-finite)		_	tax Error
N-f (Non-finite)			
Rs (Relative clause in Subject slot)			
Ro (Relative clause in Object slot)			
Ra (Relative clause in Adverbial slot)			
A (Adverbial clause)			
Ns (Nominal clause in Subject slot)			
No (Nominal clause in Object/Complement slot)			
Direct Speech			
Direct speech (100 word section)	Total Num	ber of instances:	
Instances of L	OS that were not marked with ir	nverted commas:	
	Total number	r of words of DS:	
	T / / N		I
Reporting direct speech, e.g., "He said" (M+DS)	Total Num	ber of instances:	
(100 wd))			
Total number of words of M+DS:			
Phrase structure			
Subject noun phrases (100 word section)	Number used that are	single pronouns:	
Number that are single nouns:			
Number used that are longer than one word:			
			1
Verb phrases (100 word section) Number of verb phrases:			
	Total number of v	vords in this slot:	
Object noun phrases/Complements (100 word	New	mbor of phropos:	T
Object noun phrases/Complements (100 word section)	Nui	mber of phrases:	
Section)	Total minute on the	wanda in this state	
	Total number of v	voras in this siot:	
Phrases in Adverbial slot (100 word section)	Nun	nber of phrases :	
	. 13	. ,	
	Total number of v	vords in this slot:	

Subordinators

(100 word section)	Number of subordinators used :	
List the subordinators here, indicating the number of each:		
Modals (can, may, will, should, would, could, might, must, use	ed to, shall, ought to)	
(100 word section- not counting DS)	Number of modals used :	
List the modals here, indicating the number of each:		
Text length Total text length		
Word count	Total number of words:	

Other- please mention anything else you may have noticed

(For example, use of adjectives, handwriting (legibility, joining and fluency))

Development in Writing at the End of Key Stage 2

Annex 1d Rating Sheet for Short Task (Linguistics Raters)

Linguistics rater:	Script #:	
Technical accuracy Punctuation		
Commas (100 word section)	Number used in wrong places:	
	Number missing:	
Commas, used to mark direct speech (100	Number used in wrong places:	
word section)		
	Number missing:	
Full stops/ other marks used to close direct	Number used in wrong places:	
speech (100 word)		
	Number missing:	
Full stops (100 word section)	Number used in wrong places:	
	Number missing:	
Inverted commas (100 word section)	Number used in wrong places:	
,	Number missing:	
Other punctuation problems (list here and note number of errors) (100 words)	Total other errors:	
number of entris) (100 words)		
Spelling		
Incorrect spelling (100 word section)	Number of incorrect spellings:	
List any instances of errors relating to cultural		
influences:		
Text length Total text length		
Word count	Total number of words:	

Other- please mention anything else you may have noticed

(For example, use of adjectives, handwriting (legibility, joining and fluency))

Development in Writing at the End of Key Stage 2

Annex 2a Pro Forma for Narrative Qualitative Analysis

Name: Rater:		
'Breakfast Surprise' (Imaginative narrative)		
	Year 5	Year 6
Qualitative features	Score (): L_	Score (): L_
Qualitative leatures	1	
Overall effectiveness		
of imaginative		
narrative		
Incl. selection and sequencing of		
information in the format		
of a story (incl. setting;		
character; main event,		
resolution, through		
action, dialogue and		
description).		
Consistent narrative		
form, attempts to engage		
reader.		
Contont		
Content Subject matter of		
imaginative narrative		
e.g. attention to specified		
story prompt; key events		
portrayed from Alex's		
point of view;		
supernatural character		
or incident; error in order or supply of gift;		
disappointing gift; gift		
comprising pet or		
journey.		
Language use		
Third person/past tense		
used consistently.		
Narrative linked through		
the use of connectives		
that signal time, shift		
attention or inject		
suspense.		
Words chosen to		
enhance the writing		
through (i) stylistic		
choices (exclamations		
used for impact;		
questions used to draw the reader into events;		
dialogue in different		
tense; use of repetitive		
structures; information		
withheld to build		
suspense); (ii)		
adventurous vocabulary		
to add interest to the writing or verbs to		
emphasise action,		
thoughts or feelings.		
Other		
Incl. length, spelling,		
handwriting and punctuation.		
pariotaution.	1	1

Development in Writing at the End of Key Stage 2

Annex 2b Pro Forma for Persuasive Description Qualitative Analysis

Name: Rater:			
'The Toffee Tower' (persuasive description)			
	Year 5	Year 6	
	Score (): L_	Score (): L_	
Qualitative features			
Overall effectiveness of persuasive description Incl. logical, non-chronological structure (introduction, description and concluding appeal). Awareness of audience needs. Consistent persuasive style. Use of underlining, capitals, brackets, exclamations etc. for effect.			
CHOOL.			
Content Subject matter of persuasive description e.g. key information points, ingredients, health, value for money, human instincts and drives, life-changing experiences, customer satisfaction.			
Language use Incl. precise and/or adventurous vocabulary; expanded description via variety of nouns and verbs, pre-modification of nouns, adverbials, directive verb forms, imagery, alliteration and other word play, hyperbole, variety of sentence constructions, rhetorical questions, cohesive ties.			
Other Incl. length, spelling, handwriting and punctuation.			

Development in Writing at the End of Key Stage 2

Annex 3 Narrative Task Binomial Analysis

Item	Name	Year 5 - Year 6	Notes
1-6	Ability to write in a style appropriate to audience and purpose		
1	Attention to specified story prompt	-3.01 0.003	
2	Narrative form is maintained	-1.04 0.289	
3	Awareness of reader	-2.21 0.027	
4	Clear evidence of purpose (attempts to engage reader)	-2.69 0.007	
5	Third person used consistently	-1.50 0.133	
6	Past tense used consistently	-1.77	
7-8	Viewpoint	0.077	
7	Key events portrayed from Alex's point of view	-1.96 0.050	
8	Viewpoint well controlled	-0.49 0.624	
9-26	Ability to select and sequence information in the format of a story	0.024	
9-12	Amount of narrative structure		
9	Setting	-1.98 0.047	
	Item 10 (Character):	-1.58/0.114	"developed" was
	Item 11 (Main event):	-2.50/0.012	used as the
	Item 12 (Resolution):	-1.41/0.159	comparative proportion
13-24	Strategies used to elaborate narrative		
13	Setting / Action	-1.31 0.190	
14	Dialogue	0.17 0.865	
15	Setting / Description):	0.42 0.682	
16	Character / Action	-1.96 0.050	
17	Character / Dialogue	-0.90 0.368	
18	Description	-0.97 0.332	
19	Main event / Action	-2.10 0.036	
	Dialogue	-1.26	
21	Main event / Description	0.208 -1.28	
22	Boodytion / Action	0.201	
22 22	Resolution / Action Resolution / Action	-0.182	
23	Resolution / Dialogue	0.069 -2.90	
24	Resolution / Description):	0.004 -0.75	
25-26	Plot resolution	0.453	
25-20	Coherent Ending	-0.81 0.418	
26	Concluding comment linked to resolution	-0.21 0.834	
27-29	Ability to construct paragraphs	0.004	
27-28	Ideas organised into paragraphs		
27	Well organised paragraphs	-3.30 0.001	
	Narrative purpose	-1.63	

		0.103	
29	Nature of paragraphing		
29	How many paragraphs does the writer use?	N/A	
30-32	Ability to link the narrative		
30-32	Use of connectives		
30	Connectives that signal time	-0.87	
		0.384	
	Shift attention	0	
32	Connectives used to inject suspense	-2.38	
		0.017	
33-39	Ability to choose words which enhance the writing		
33-37	Stylistic choices focus on narrative appeal		
33	Exclamations used for impact	-2.89	
33	Exciamations used for impact	0.004	
34	Questions used to draw the reader into events	-0.76	
	Questions used to draw the reduct line events	0.447	
	Diff Tenses	-1.14	
		0.254	
	Repetitive	0.83	
	· ·	0.407	
	Withheld Info	-0.62	
		0.535	
38-39	Vocabulary chosen for narrative impact on reader		
38	Use of adventurous vocabulary adds interest to the	-2.23	
	writing	0.026	
39	Verbs used to emphasise action, thoughts or	-1.63	
	feelings	0.009	
44-45	Ability to do process writing		
	Evidence of planning	-1.75	,
		0.080	
45	Editing / Proof-reading / Self correction	-0.33	
		0.741	

Note:

The binomial statistic is a comparison of proportion between Y5 and Y6; the metrics given are the z scores and p values.

Development in Writing at the End of Key Stage 2

Annex 4 Tables 4-14

Table 4. Ability to write in style appropriate to audience and purpose (% of scripts)

	Item	Present in Year 5	Present in Year 6
	Narrative form is maintained (2)	86.5	90.9
Style is appropriate	Awareness of reader (3)	71.2	83.6
to audience and purpose	Clear evidence of purpose (attempts to engage reader) (4)	59.5	76.4
	Third person used consistently 5)	82.0	89.1
	Past tense used consistently (6)	82.9	90.9
Viewpoint	Key events portrayed from Alex's [principal character] point of view (7)	85.6	93.6
	Viewpoint well controlled (8)	58.6	61.8

Table 5. Ability to select and sequence information in the format of a story (% of scripts)

	Item		Present/developed in Year 5	Present/developed in Year 6
Amount of	Setting (9)		22.5	34.5
narrative	Character (10)		65.8	75.5
structure	Main event (11)		36.0	52.7
	Resolution (12)		45.9	55.5
	Setting	Action	31.5	40.0
	(13-15)	Dialogue	14.4	13.6
		Description	27.0	24.5
	Character (16- 18)	Action	68.5	80.0
		Dialogue	55.0	60.9
Strategies used		Description	65.8	71.8
to elaborate	Main event	Action	46.8	60.9
narrative	(19-21)	Dialogue	22.5	30.0
		Description	43.2	51.8
	Resolution	Action	45.0	57.3
	(22-24)	Dialogue	24.3	42.7
	, ,	Description	50.5	55.5
Plot resolution	Is there a coher	ent ending? (25)	64.0	69.1
	Concluding comment linked to resolution (26)		53.2	54.5

Table 6. Ability to construct paragraphs (% of scripts)

	Item	Present in Year 5	Present in Year 6
Ideas organised into	Well organised paragraphs (27)	40.5	62.7
paragraphs	Opening paragraph establishes narrative purpose (28)	80.2	88.2

Table 7. Ability to construct paragraphs (% of scripts)

	Item	Year	None	Many short	2-3	4-5
Nature of	How many paragraphs does the	Year 5	48.6	11.7	23.4	16.2
paragraphing	writer use? (29)	Year 6	27.3	25.5	20.9	26.4

Table 8. Ability to link the narrative (% of scripts)

	Item	Present in Year 5	Present in Year 6
	Connectives that signal time (2 or more examples) (30)	41.4	47.3
Use of connectives	Connectives used to shift attention (1 or more examples) (31)	6.3	6.4
	Connectives used to inject suspense (1 or more examples) (32)	8.1	19.1

Table 9. Ability to choose words that enhance the writing (% of scripts)

	Item	Present in Year 5	Present in Year 6
	Exclamations used for impact (33)	40.5	60.0
Stylistic choices	Questions used to draw the reader into events (34)	14.4	18.2
focus on narrative appeal	Dialogue in different tenses (35)	40.5	48.6
	Some use of repetitive structures (36)	20.7	16.4
	Was information withheld to build suspense (37)	31.5	35.5
Vocabulary chosen	Use of adventurous vocabulary adds interest to the writing (38)	36.9	51.8
for narrative impact on reader	Verbs used to emphasise action, thoughts or feelings (39)	45.0	62.7

Table 11. Ability to write in a style appropriate to audience and purpose (% of scripts)

	Item	Present in Year 5	Present in Year 6
	Advertisement form is maintained (2)	63.6	75.7
	Addresses reader (3)	80.0	82.9
Style appropriate to	Clear evidence of purpose (attempts to convince reader) (4)	80.9	85.6
audience and	Consistent focus on persuasion (5)	81.8	80.2
purpose	Simple present tense (6)	97.3	100.0
	Use of bold type and/or CAPITAL letters to add emphasis (7)	14.5	26.1
	Clear and consistent viewpoint established (8)	86.4	91.0
Viewpoint	Conversational relationship with audience (style/tone) (9)	74.5	77.5
	Content included to impress audience (10)	80.0	81.1
	Speaker's knowledge is established/authoritative voice (11)	86.4	87.4

Table 12. Ability to select and sequence information in the format of persuasive writing (% of scripts)

	Item		Present in Year 5	Present in Year 6
Attracting	Opening sentence/p	ohrase (12)	75.5	77.5
attention	Nature of 'hook'	A little drama (13)	30.0	33.3
		A story (14)	34.5	40.5
		A problem in need of a solution (15)	2.7	3.6
	Key information	Is the information precise? (16)	75.2	86.5
	about the product	Is the information given relevant? (17)	80.7	86.5
The		Name of product (18)	92.7	90.1
Information	Overview of product with	Description of dessert's features (19)	91.8	98.2
	appropriate	Nominated audience (20)	29.1	33.3
	supporting detail	Availability of product (21)	43.6	47.7
		Explanation of its appeal to the audience (22)	57.3	64.0
		A series of persuasive points (23)	57.3	71.2
		Development of above points by adding more detail (24)	51.8	69.4
	Memorable ('take he	ome') message (25)	50.0	62.2
The slogan	Concluding appeal	, , ,	61.8	67.6
-		f the information given (27)	20.9	33.3
The Small print	Inclusion of the sma		5.5	8.1

Table 13. Ability to construct paragraphs, use a variety of sentences and link ideas (% of scripts)

	Item	Present in Year 5	Present in Year 6
Ability to construct paragraphs	Well organised paragraphs (29)	33.6	37.8
	Opening paragraph establishes persuasive purpose (30)	70.0	70.3
Ability to use a variety of sentences	Effective use is made of a variety of sentence types (31)	36.4	47.7
	Uses a mixture of long and short sentences for effect (32)	25.5	34.2
Ability to link ideas	Coherent/ordered linking of ideas (33)	65.5	74.8
	Mainly logical connectives (34)	50.9	56.8

Table 14. Ability to choose words which enhance the writing (% of scripts)

	Item	Present in Year	Present in Year
		5	6
Stylistic choices	Snappy slogan (35)	30.0	36.0
focus on persuasive	Exaggeration (36)	59.1	58.6
appeal	Intriguing question – to catch reader's attention (37)	15.5	22.5
	Adjectives/adverbs for emphasising (38)	85.5	91.9
	Wordplay (linguistic patterning, alliteration, figurative language) (39)	28.2	38.7
	Tempting description of the benefits of the product (40)	39.1	40.5
Vocabulary chosen	Noun phrases (41)	81.8	91.0
for persuasive effect	Adverbials (42)	49.1	56.8
	Verb phrases (43)	39.1	52.3

Development in Writing at the End of Key Stage 2

Annex 5a

Text-level features in narrative texts: additional Chi squared analysis

Chi squared analysis was used for each item in the rating scales to investigate the numbers of pupils whose writing included a feature in one year but not the other. The analysis revealed an 'ebb and flow' profile, with substantial proportions of children including some features in Year 5 but not in Year 6 and vice versa.

The analysis revealed a moderate initial level of use, and also a significant increase, in the use of the following features, but also a substantial proportion of pupils whose writing included the feature in Year 5 but not in Year 6:

Developed main event

Elaboration of character through action

Elaboration of main event through action

Exclamations used for impact

Use of adventurous vocabulary

There was a low initial level of use, and also a significant increase, in the use of the following, but also a substantial proportion of pupils whose writing included the feature in Year 5 but not in Year 6:

Connectives to inject suspense

Elaboration of resolution through dialogue.

The analysis indicated that, in Year 5, 28 features of narrative writing were used more by girls than by boys. Of these, eight were used significantly more by girls:

Narrative form is maintained

Developed character

Developed main event

Elaboration of main event through description

Coherent ending

Concluding comment linked to resolution

Information withheld to build suspense

Verbs used to emphasise action, thoughts or feelings.

In Year 6, 24 features of narrative writing were used more by girls than by boys. Of these, four were used significantly more by girls than by boys:

Developed character

Developed main event

Elaboration of setting through action

Elaboration of main event through dialogue.

Girls maintained the gap between themselves and boys in the use of four features; overtook boys in the use of three features and opened up gaps between themselves and boys in the use of four features.

In Year 5, 11 features of narrative writing were used more by boys than by girls. Of these, one feature was used significantly more by boys:

Elaboration of setting through action.

In Year 6, 13 features of narrative writing were used more by boys than by girls. Of these, no feature was used significantly more by boys,

Overall, boys closed the gap between themselves and girls in the use of nine features; overtook girls in the use of seven features and opened up a gap between themselves and girls in the use of one feature.

Annex 5b

Text-level features in persuasive texts: additional Chi squared analysis

Chi squared analysis revealed a moderate or high initial level of use, and also a significant increase, in the use of the following features, but also a substantial proportion of pupils whose writing included the feature in Year 5 but not in Year 6

Attention to task purpose

Advertisement form is maintained

Effective use of a variety of sentence types

Vocabulary chosen for persuasive purpose: Verb phrases

A memorable 'take home' message

There was a low initial level of use, and a significant increase, in the use of the following, but also a substantial proportion of pupils whose writing included the feature in Year 5 but not in Year 6:

Snappy summary of the information given

Wordplay, linguistic patterning, alliteration, figurative language.

The analysis also indicated that, in Year 5, 24 features of persuasive description were used more by girls than by boys. Of these, three were used significantly more by girls:

Memorable ('take home') message

Well organised paragraphs

Effective use is made of a variety of sentence types

In Year 6, 37 features of persuasive description were used more by girls than by boys. Of these, four were used significantly more by girls:

Well organised paragraphs

Effective use is made of a variety of sentence types Uses a mixture of long and short sentences for effect

Coherent / ordered linking of ideas.

Girls maintained the gap between themselves and boys in 16 features; overtook boys in the use of 15 features and opened up gaps between themselves and boys in the use of five features.

In Year 5, 20 features of persuasive description were used more by boys than by girls. Of these, none were used significantly more by boys.

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In Year 6, three features of persuasive description were used more by boys than by girls. Of these, none were used significantly more by boys.

Overall, boys closed the gap between themselves and girls in the use of one feature; overtook girls in the use of two features; and opened up gaps between themselves and girls in the use of one feature.

Further investigation is needed into which features, within the 'ebb and flow' profile, seem to secure the basis for subsequent, 'incremental' development in different genres.

Development in Writing at the End of Key Stage 2

Annex 6 Changes in text-level features in persuasive texts by gender

Gains	Gains in
close to significance in boys	close to significance in girls
use of bold type and/or capital letters to add emphasis (p < 0.09)	advertisement form maintained (p < 0.07)
memorable ('take home') message (p < 0.07)	content included to impress audience (p < 0.08)
adjectives / adverbs for emphasis (p < 0.07)	snappy summary of the information given (p < 0.09
	Uses a mixture of long and short sentences for effect (p < 0.08)

Development in Writing at the End of Key Stage 2

Annex 7 Sentence grammar and technical accuracy differences approaching significance

Differences between another 18 features approached significance and could conceivably reach significance in a replicated study with a larger sample:

There were more commas in the wrong place.

There were more other punctuation problems (noted by raters on respective scripts).

There were more instances of direct speech.

There were more words in direct speech.

There were more instances of reporting direct speech.

There were more nouns in Subject noun phrases.

There were more Subject noun phrases longer than one word.

There were more words in Verb phrases.

There were fewer commas missing in direct speech.

There were fewer full stops missing to close direct speech.

There were fewer prepositions in the wrong place.

There were fewer relative clauses in the Object slot.

There were fewer adverbial clauses.

There were fewer pronouns in Subject noun phrases.

There were fewer words in the Object slot.

There were fewer words in the Adverbial slot.

There were fewer subordinators.

There were fewer modals.