Teaching Innovations, Volume 34, Issue 1, pp. 44–62 doi: 10.5937/inovacije2101044L



Nataša Z. Lalić-Vučetić<sup>1</sup>, <u>Nada S. Ševa</u> Institute for Educational Research, Belgrade, Serbia

Original scientific paper

Paper received: Sep 5 2020 Paper accepted: Dec 15 2020 Article Published: Apr 13 2021

## The Relationship between a Text and an Illustration: Illustrators' and Primary School Teachers' Perspective<sup>2</sup>

## **Extended summary**

Illustrations are an effective means of communication in children's literature and textbooks. A visual representation supports understanding and adoption of the read material, not only in the domain of literary texts, but also in the areas such as mathematics or sciences. However, it is important to note that the facilitating role of illustrations in understanding the reading material largely depends on the following factors: a) the quality of an illustration and its correlation with the text in terms of content; b) the ability of a reader to integrate the content of the text and the illustration; and c) the level of success of an adult as a mediator in connecting the text and the illustration during the children's reading process.

The paper focuses on examining the quality of the relationship between an illustration and a text and their integration in the process of understanding the text that has been read by: a) monitoring the process of illustration from the perspective of illustrators and their role relative to readers and publishing houses; b) examining the perspective of the primary school teachers as moderators in the process of connecting illustrations with texts, and their insights regarding the definition of a good quality illustration in a primer. The relationship between a text and an illustration is a complex question and a continual challenge for textbook writers, readers, as well as researchers. According to the pertaining literature, two forms of monitoring this relationship can be singled out: a. by means of spatial organization and b. by looking for the connection in terms of meaning.

Copyright © 2021 by the authors, licensee Teacher Education Faculty University of Belgrade, SERBIA.

This is an open access article distributed under the terms of the Creative Commons Attribution License (CC BY 4.0) (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original paper is accurately cited.

<sup>1</sup> nlalic@ipi.ac.rs

<sup>2</sup> The research was financed by the Ministry of Education, Science, and Technological Development of the Republic of Serbia (Contract No. 451-03-68/2020-14/200018).

The paper is a part of the broader research aimed at exploring, on the one hand, the quality of the relationship between a text and an illustration in a textbook/primer, and, on the other hand, the perception of teachers as users of these textbooks/primers and illustrators as creators of the visual identity of the textbooks and primers. In the first phase, the researchers applied a system of codifying the quality of the relationship between a text and an illustration, described by means of the qualitative and quantitative analyses of the obtained data. In the second phase of the research, a qualitative research was conducted using a focus group with primary school teachers and an interview with an illustrator.

The approach of *key informers* was used in the research. The subjects of the research, five primary school teachers from different schools in Belgrade and one illustrator were selected for this research in accordance with the set of the research criteria: the profession of the subjects and their previous experience regarding specific skills and knowledge required in their profession. All audio-visual data were created during conversations with the teachers in the focus group and the interview with the illustrator.

Several categories can be singled out from the teachers' and the illustrator's narratives: the categories referring to and explaining the relationship between a text and an illustration, and the categories describing the scope of teachers and illustrators in the process of the text and illustration integration, as well as their motivation. The critical attitude of the illustrator and the teachers towards publishing and the importance of the illustration is a common point in the narratives. They stressed out that it is necessary to strike a proper balance to be able to establish any relationship between the text and the illustration. Text illustration is a complex mechanism in which everyone involved in a textbook/primer design should bear their share of responsibility. To enable children to understand what they read and build new meanings, all standards of a good quality textbook illustration must be fulfilled: from a complete representation of colours and details, to conveying emotions to create communication with children and encourage specific cognitive processes in them. Primary school teachers acknowledge the significance of the illustration in terms of text explanation and they are aware that they are the link in building the text-illustration relationship in the classroom.

As far the creative process and illustration design are concerned, we found out that the factors impacting a textbook illustration are the illustrator's personal characteristics and his/ her stylistic expression, as well as the external factors such as timeframe and the number of pages in a textbook. The illustrators' perspective implies acknowledging interests and needs of children of different age groups, which is achieved by a continued research. When children design illustrations, which is very often a part of their task at the lessons dedicated to the analysis of texts in Serbian, teachers tend to limit their creative process by asking children to present only partially and in basic terms what they found to be most striking in the text. The real illustration is linked only to art lessons and the skills of drawing and colouring. From the perspective of the multimedia learning, it is assumed that the processing of language and visual information occurs simultaneously, which cannot be claimed for the primary school teachers who lack the knowledge of the two-way relationship between a text and an illustration, and do not fully realize the significance of visual literacy in the further development of reading competencies.

By introducing the illustrator's and teachers' perspectives in one part of the qualitative research, we gained insights into a broader context of the process of the textbook design and defined the roles of the key actors in it. We tried to examine the role of individual actors in terms of the accountability for a large number of illustrations that have only a decorative function. It is assumed that textbook design is a very delicate and complex task requiring team work, a lot of time, different skills, and creativity. In the context of this paper, further research should be focused on the relationship between an illustration and a text in teaching process. To conclude with, it is necessary to develop a further framework for teacher education in terms of stressing the importance of illustrations for the learning process in teaching.

Keywords: illustration, text, perspective, illustrator, primary school teachers.

## References

- Atkinson, P. (2005). Qualitative research unity and diversity. *Forum: Qualitative Social Research*, 6 (3), Art. 26.
- Barmby, P., Bolden, D., Raine, S. & Thompson, L. (2013). Developing the use of diagrammatic representations in primary mathematics through professional development. *Educational Research*, 55 (3), 263-290.
- Braun, V. & Clarke, V. (2006). Using thematic analysis in psychology. *Qualitative Research in Psychology*, 3 (2), 77–101.
- Brookshire, J., Scharff, L. F. & Moses, L. E. (2002). The influence of illustrations on children's book preferences and comprehension. *Reading Psychology*, 23 (4), 323–339.
- Cianciolo, P. (1970). *Illustrations in children's books*. Dubuque, IA: William C. Brown Company Publishers.
- Cook, M. (2011). Teachers' use of visual representations in the science classroom. *Science Education International*, 22, 175-184.
- DiGiuseppe, M. (2014). Representing nature of science in a science textbook: Exploring author-editor-publisher interactions. *International Journal of Science Education*, 36 (7), 1061–1082. DOI: 10.1080/09500693.2013.840405
- Eilam, B. & Gilbert, J. K. (Eds.) (2014). *Science teachers' use of visual representations*. London: Springer International Publishing.
- Eng, C. M., Godwin, K. E., Boyle, K. & Fisher A. V. (2018). Effect of illustration details on attention and comprehension in beginning readers. In: Rogers, T. T., Rau, M., Zhu, X. & Kalish, C. W. (Eds.). *Proceedings of the 40th Annual Meeting of the Cognitive Science Society* (336-341). Austin, TX: Cognitive Science Society.
- Evans, M. A., Watson, C. & Willows, D. M. (1987). A naturalistic inquiry into illustrations in instructional textbooks. In: Houghton, H. A. & Willows, D. M. (Eds.). *The psychology of illustration. Vol. 2: Instructional issues* (86–115). New York: Springer.
- Godwin, K. E., Eng, C. M. & Fisher A. V. (2017). Gaze shifts between text and illustrations are negatively related to reading fluency in beginning readers. In: Gunzelmann, G., Howes, A.,

Tenbrink, T. & Davelaar, E. J. (Eds.). *Proceedings of the 39th Annual Meeting of the Cognitive Science Society* (415-420). Austin, TX: Cognitive Science Society.

- Godwin, K. E., Eng, C. M., Todaro, R., Murray, G. & Fisher A. V. (2018). Examination of the role of book layout, executive function, and processing speed on children's reading fluency and comprehension. In: Rogers, T. T., Rau, M., Zhu, X. & Kalish, C. W. (Eds.). *Proceedings of the 40th Annual Meeting of the Cognitive Science Society* (1723-1728). Austin, TX: Cognitive Science Society.
- Greenhoot, A. F. & Semb, P. A. (2008). Do illustrations enhance preschoolers' memories for stories? Age related change in the picture-facilitation effect. *Journal of Experimental Child Psychology*, 99 (4), 271-287.
- Greenhoot, A. F., Beyer, A. M. & Curtis, J. (2014). More than pretty pictures? How illustrations affect parent-child story reading and children's story recall. *Frontires in Psychology*, 5, 738.
- Hamer, N., Nodelman, P. & Reimer, M. (Eds.) (2017). *More words about pictures: Current research on picture books and visual/verbal texts for young people.* New York: Routledge.
- Jansen, H. (2010). The logic of qualitative survey research and its position in the field of social research methods. *Forum: Qualitative Social Research*, 11 (2), Art. 11.
- Kümmerling-Meibauer, B. (2018). *The Routledge Companion to Picturebooks*. London and New York: Routledge.
- Lazarević, D. (2009). Udžbenik kao predmet psihološke analize u našoj sredini pristupi, problemi i rezultati. *Inovacije u nastavi*, 4 (22), 5-15.
- Levin, J. R. & Mayer, R. E. (1993). Understanding illustrations in text. In: B. K. Britton, A. Woodward & M. Binkley (Eds.). *Learning from textbooks: theory and practice* (115–134). Hills-dale: Lawrence Erlbaum Associates Publisher.
- Marsh, E. E. & White, M. D. A. (2003). Taxonomy of relationships between images and text. *Journal of Documentation*, 59 (6), 647–672.
- Mason, J. (2002). Qualitative researching. London: SAGE Publications.
- Mason, L., Pluchino, P., Tornatora, M. C. & Ariasi, N. (2013). An eye-tracking study of learning from science text with concrete and abstract illustrations. *Journal of Experimental Education*, 81 (3), 356–384.
- Mayer, R. E. (2005). Cognitive theory of multimedia learning. In: Mayer, R. E. (Ed.). *The Cambridge Handbook of Multimedia Learning* (31–48). New York: Cambridge University Press.
- Mayer, R. E., Steinhoff, K., Bower, G. & Mars, R. (1995). A generative theory of textbook design: Using annotated illustrations to foster meaningful learning of science text. *Educational Technology and Research Development*, 4 (1), 31–43.
- Mayer, R. E. (1993). Illustrations that instruct. In: Glaser, R. (Ed.). *Advances in instructional psychology*, 5 (253-284). Hillsdale, JH: Erlbau.
- Mitrović, M. (2007). Kuda teže današnji bukvari i početnice. U: Plut, D. (ur.). *Kvalitet udžbenika za mlađi školski uzrast* (37–50). Beograd: Filozofski fakultet Institut za psihologiju.

- O'Neil, K. E. (2011). Reading pictures: Developing visual literacy for greater comprehension. *The Reading Teacher*, 65 (3), 214-223.
- Pešić, J. (2016). Od izvora informacija do sredstva za učenje: neke aktuelne dileme obrazovnog dizajniranja udžbenika. U: Pešikan, A. (ur.). *Udžbenik u funkciji nastave i učenja* (35–52). Užice: Učiteljski fakultet.
- Pešikan, A. (2019). Funkcija slika u udžbenicima. U: Pešikan, A., Stevanović, J. (ur.). *Udžbenik: stara tema pred izazovima savremenog doba* (67–103). Beograd: Institut za pedagoška istraživanja.
- Peterson, M. O. (2016). Schemes for integrating text and image in the science textbook: Effects on comprehension and situational interest. *International Journal of Environmental & Science Education*, 11 (6), 1365–1385.
- Pike, M. M., Barnes, M. A. & Barron, R. W. (2010). The role of illustrations in children's inferential comprehension. *Journal of Experimental Child Psychology*, 105 (3), 243–255.
- Ševa, N., Lalić-Vučetić, N. (2019). Odnos teksta i ilustracije: analiza savremenih bukvara. *Zbornik Instituta za pedagoška istraživanja*, 51 (2), 538-563.
- Ševkušić, S. G. (2011). *Kvalitativna istraživanja u pedagogiji: Doprinos različitih metodoloških pristupa*. Beograd: Institut za pedagoška istraživanja.
- Silverman, D. (2016). Qualitative research. London: Sage Publications.
- Smith, B. & Sparkes, A. C. (2005). Analyzing talk in qualitative, inquiry: Exploring possibilities, problems and tensions. *QUEST*, 57, 213–242.
- Tversky, B. (2011). Visualizing thought. *Topics in Cognitive Science*, 3, 499–535.
- Vekiri, I. (2002). What is the value of graphical displays in learning? *Educational Psychology Review*, 14 (3), 261–312.