Best Practices for Developing Supplementary Reading Materials

EXECUTIVE SUMMARY

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MULTIPLE DESIGN CONSIDERATIONS AFFECT BEGINNING READERS’ ABILITY TO PROCESS AND UNDERSTAND TEXT. FONT TYPE AND FONT SIZE, THE SPACING OF WORDS AND LETTERS, AND THE USE OF COLOR ARE ALL IMPORTANT FACTORS. TRIM SIZES AND BINDING METHODS, PAPER WEIGHTS AND PRODUCTION MODALITIES ALL PLAY A ROLE IN TEXT DURABILITY AND COSTS.

THE BODY OF RESEARCH AVAILABLE TO GUIDE CHOICES ABOUT TEXT FORMAT AND DESIGN IS SMALL. LINGUISTIC DIVERSITY, DIFFERENT CHARACTERISTICS OF SCRIPTS, AND DIFFERING COUNTRY CONTEXTS COMPLICATE THE DEVELOPMENT OF UNIFORM STANDARDS. HOWEVER, AVAILABLE RESEARCH AND CURRENT BEST PRACTICE POINT TO THE GENERAL GUIDELINES THAT THIS PAPER DESCRIBES.

A. FONT TYPE

• Children read books more quickly if they are printed in simple fonts.
• “Serif” fonts are fonts where small lines are attached to the end of a stroke in a letter or a symbol. These small lines require the eye to process additional visual cues. “Sans-serif” fonts do not include these small lines. Moreover, the uniform thickness of the sans-serif fonts corresponds to what most teachers write on the blackboard.
• Sans-serif fonts such as Andika, Myriad Pro, ZNuscript, Arial, Cordia New, Helvetica and Levenim MT should be used for the development of supplementary reading materials for early grade readers.
• Andika is a free font that has been explicitly designed with the beginning reader in mind and is highly recommended.

B. FONT SIZE

• Font size influences reading speed and comprehension. Increased font size is particularly important for 5 to 7 year olds.
• An increase in letter size can improve reading speed by as much as 9 percent.
• Depending on the readers’ ability level, font sizes should be a minimum of 24 – 26 points (English/Latin Script) or 32 points (Thai/Arabic Script).
• For texts that children will read alone with no support from a teacher or family member, the largest recommended font size should be used.

C. WORD AND LETTER SPACING

• Unjustified text alignment is preferred for early grade reading. Texts written in Latin scripts should be left-aligned and texts written in scripts such as Arabic or Hebrew should be right-aligned.
• The more white space there is on a page, the easier that page is to read. Word and letter spacing both influence the amount of white space.
• General guidelines exist for the optimal number of words per line and number of lines per page. However, specific standards depend highly on script.
• For learners who have not yet begun to read, a general rule of thumb is to use 3 to 4 words per line, and 4 to 5 lines of text per page.
• Spacing should be used to help learners distinguish information chunks. A hierarchical decrease in spacing (e.g., four lines between main heading and subheading, followed by two lines between subheading and text) may assist learners in processing information.

D. COLOR

• Color attracts and motivates readers, particularly young ones.
• When using color, be consistent. To avoid visual confusion and distraction, never use more color than necessary.
• There is little agreement on the impact of color on reading acquisition; this is an area for potential further research.
• This study found that full-color book production can cost 10 percent more than black and white.
• Using color is a ‘balancing act’ between the potential positive effects of color on readers’ motivation or comprehension and the additional costs involved.

E. Trim Size and Binding
• Trim size refers to the final size of paper after the excess edges have been cut off in the printing process.
• Selecting trim sizes that are matched to the exact size of the printing press to be used for production, (even if they are non-standard) can avoid paper waste and thereby reduce cost.
• Printers are able to indicate what trim size best suits their presses.
• There are four binding techniques: saddle stitching, perfect binding with hotmelt, perfect binding with sewed hotmelt, and perfect binding with polyurethane (PUR).
• Investment in PUR binding technology is fundamental for development of durable, long-lasting supplementary materials, regardless of the number of pages; however, in some contexts, it will not be locally available.
• For materials under 96 pages, saddle stitching may also be an economical binding technique; over 96 pages, it is not appropriate.

F. Paper
• Paper affects the durability, presentation and price of reading materials.
• There are 2 main types of paper: coated and uncoated.
• Reading materials should be printed on uncoated, bond paper; this paper is classified according to grams per square meter (a measure of durability and level of opacity).
• For the best paper price, try to buy in bulk, consider the printer’s paper supplier relations and ability to hold stock or order in a timely fashion, and review the necessity and cost implications of importing.

G. Printing and Distribution
• Printing methods should be chosen in relation to the scale of the order.
• Local production of materials, which allows printers to build capacity as their markets expand, is increasingly feasible. If local graphic capacity is sufficient, then local production is advantageous: international costs can be avoided, book demand benefits local economies, and turnaround time is shorter.
• Medium volumes merit local offset printing, and less than 1,000 copies of smaller volumes can best be provided through a central digital hub or even the local copy shop.
• International procurement is recommended for high volume orders. Large, international printers have access to all kinds of printing presses, including those that produce huge orders cost-effectively. These will generally not be locally available because machine capacity is determined by local demand. However, international distribution costs have to be considered in the total unit price per book.

H. Digital Storage and Retrieval of Reading Materials
• Digital storage can reduce development costs and duplication of effort, and has great potential for preserving texts, facilitating in-country and cross-country access, and creating versions in multiple languages.
• Some issues that influence design and requirements of the digital platform include: access to materials, equipment, and training, software and hardware requirements, and linguistic, cultural, social and political diversity.
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