

The Influence of Visual Elements on the Academic Performance of School-aged Children (1st Cycle)

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Introduction

The level of demand and challenges inherent in teaching and learning children are increasingly greater (Galian, 2011; Galian et al., 2021). It is important to understand which factors can influence their ability to maintain focus on school learning tasks

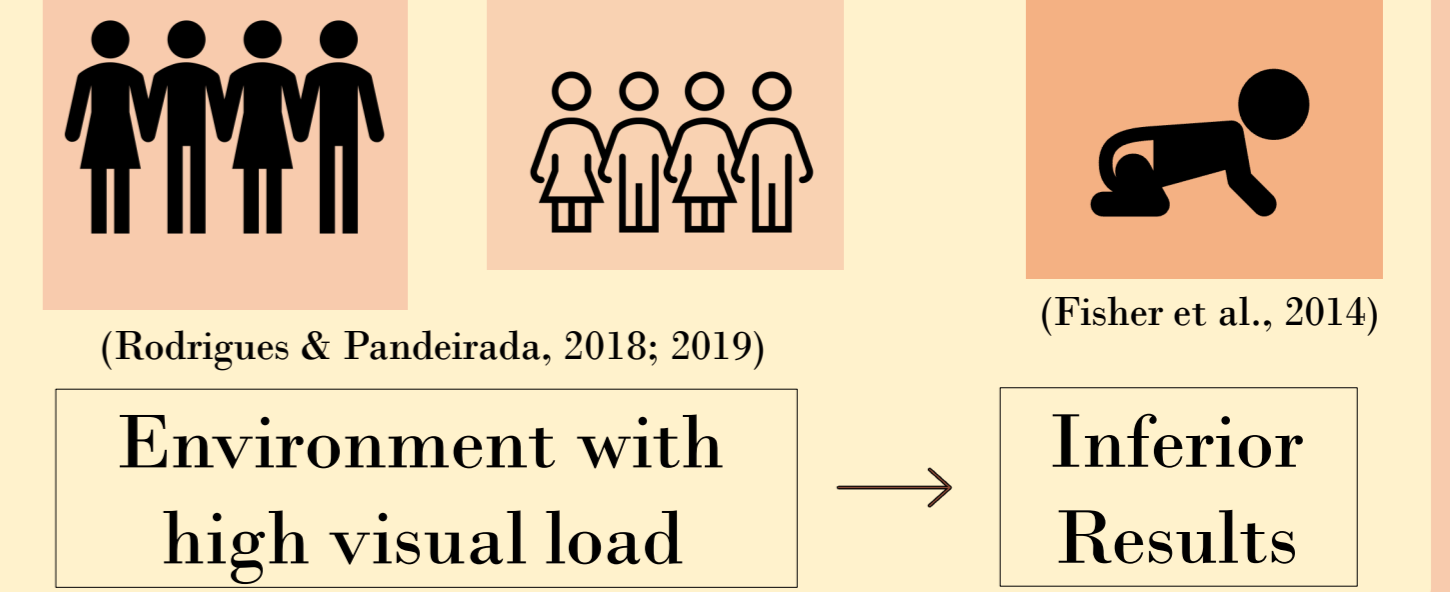
(Parmentier, 2016).

Visual elements can promote or hinder student performance

Source of Distraction
(Fisher et al., 2014)

✓ Impair the ability to maintain attention
 ✓ Reduce learning gains

(e.g., Godwin et al., 2022; Markant, & Amso, 2022)



Visual environment is one of the responsible factors for the allocation of children's attention (Parmentier, 2016)

✓ Competing stimulus control
 ✓ The use of visual formats

Strategies that promote
(de Koning, et al., 2010)

✓ Attentional focusing
 ✓ Minimize dispersion of attention

The effective influence that visual stimuli, present in classrooms, have on student whether learning and their nature impacts differently performance (Rodrigues & Pandeirada, 2019).

Visual distraction in children is widely studied (e.g., Vargas et al., 2013; Fisher et al., 2014)

but little is known

Aims:

To understand whether there is an influence of visual elements (related vs. unrelated to the task) on content learning in children.

Experimental Hypothesis:

There is an influence of visual elements on learning content in children aged 8 to 10, with visual elements related to the task being able to facilitate the learning of content and unrelated ones being able to make it difficult.

Study Description

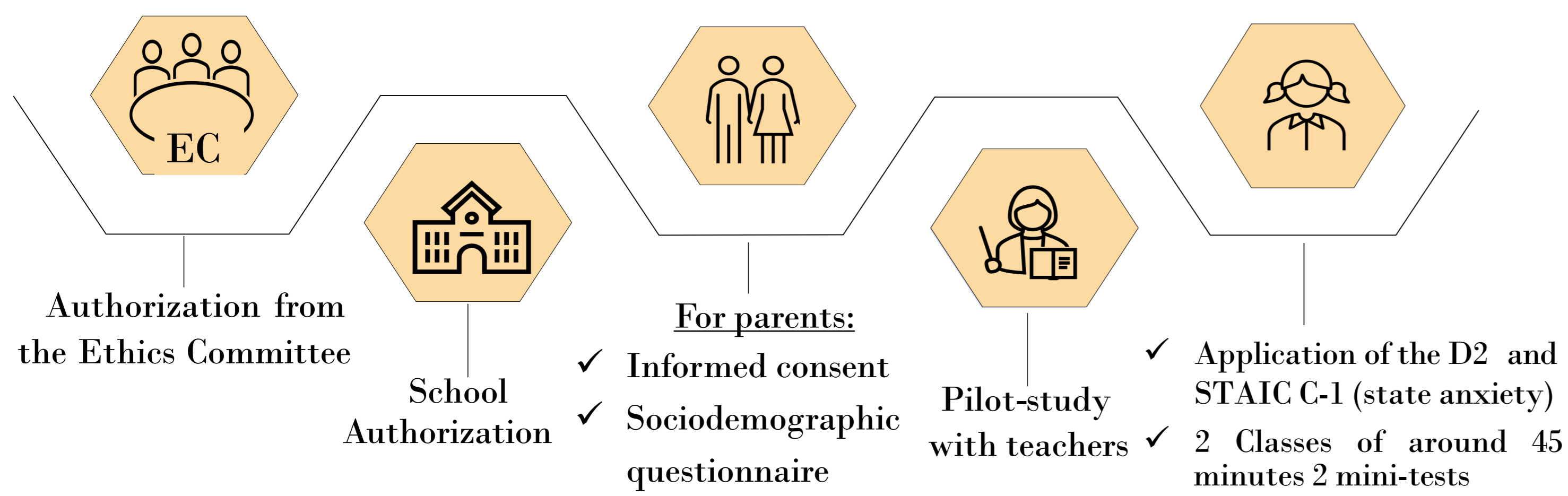
Sample and Procedures

N = 46 students
 8-10 years old (M= 8.61, SD= 0.68)

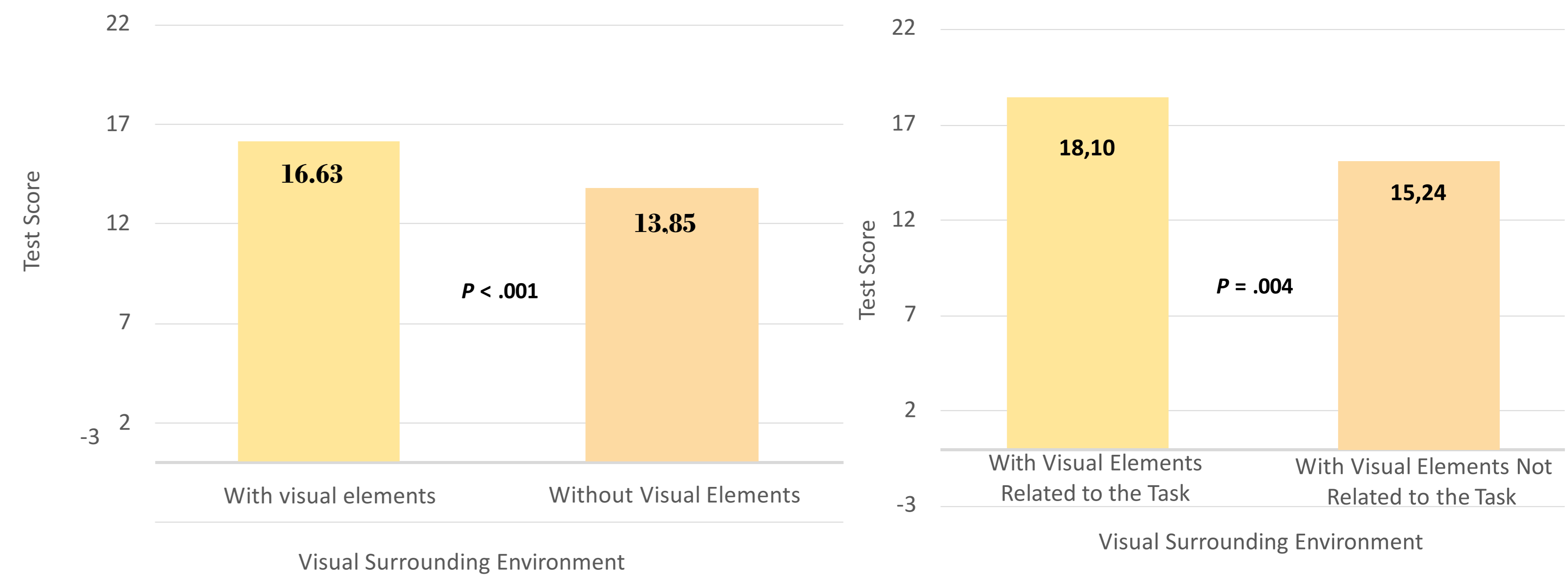
F= 23 M= 23

1st Cycle of Basic Education

3^o 24 students 4^o 22 students



Main Results



Sex ($p = .55$) Order ($p = .38$) Attention Levels ($p = .56$) Anxiety Levels ($p = .82$)

Without a statistically significant effect, with better performance in the environment with visual elements.

Implications

- ✓ It will be important in adopting new strategies for learning spaces.
- ✓ It may be one of the factors that explain children's distraction in the classroom.
- ✓ Important to understand individual-environment interaction.
- ✓ It will provide important empirical data to educators, teachers and policy makers (DGE).

Referências

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