

# Review of: "Teaching the seasons of the year to kindergarten students using desktop virtual reality. A comparative study"

Faiz Abdelhafid<sup>1</sup>

<sup>1</sup> Al-Istiqlal University

Potential competing interests: No potential competing interests to declare.

Dear Authors

Thank you very much for your work and effort, which I believe are very organized and detailed.

However, I may have some relevant points to address:

1. The title needs to be attractive. Hence, you have your variables, i.e., learning, immersion, motivation, enjoyment, and ease of use, which should valorize your study.
2. In a general perspective,

The article needs proofreading (students vs. pupils vs. children). Taking into consideration the age of your target group, using pupils or even children is more appropriate, though.

Learning is a very broad term, which I don't recommend being used as a variable because it can be misleading and interpreted in different ways. You can instead use achievement or score, which are more appropriate (since your methodology used testing as a tool, it is more accurate to use score instead of learning). What is different between children learning from teenagers and adults?

1. Regarding the introduction section:

You'll need to match VR technology with this specific category of age in your definition of virtual reality tools and philosophy.

2. Related section

You may rely on teaching abilities, but you should also take into consideration the other dimension, which is learning.

It is recommended that you define how children learn using learning theories, i.e., Piaget's state of development, Bruner's model of discovery learning, etc.

You wrote, "In this context, sensory perceptions perform an instrumental function."

For example, you can explore more sensory perceptions in children and relate them to the potential of VR technology. You

may also dig into the haptic aspect of this technology with children (feedback as sounds, visual effects, colors, patterns, etc.).

You relate in Section 2.2 to a study grouping children aged between 4 and 10 years, which I think is not ideal because starting at the age of 6, the children change their way of learning. They rely more on images, imagination, and tales.

I will get back to you soon regarding your instrumentation and methodology.