**Abstract**

This study is much like the learning science in VR paper however the approach of this research was using plant development in VR on a different planet

Key measures of learning that were focused on included retention, transfer, and program rating.

**Background**

Students learned more deeply when presented with a narration rather than as on screen directions

Immersion is a description of technology and can be an objective measurement of a VR system but can also be defined as presence in a subjective state or the psychological sense of being in VR

Higher immersion results in higher sense of presence.

**Goals/Hypothesis**

Those using VR would have higher rates of immersion therefore a higher sense of presence.

How did this effect the depth of learning?

**Participants**

N/A

**Methodology**

N/A

**Results**

Hypothesis was validated however no substantial evidence that the more immersion the deeper the learning. There was also no loss of learning either.

**Conclusion**

The more realistic the VR the more likely of successfully transfer of training to real life skills.

This can be because the more realistic the VR experience is the more the student feels they have participated in an everyday behavior instead of simply received instruction.

Experiment using HMDs should significantly higher levels of presence in both experiments.

**Limitations**

N/A

**Relevance**

Primary focus of this study was designed to observe differences in medium used in VR use in HMD and desktop computer. Not useful for this study but some key points to use or discuss in the development of this study.

According to Dewey immersive environments create a stronger sense of presence, which in turn motivates and thereby causes the learner to cognitively process the material more deeply.

Reference:

Moreno, R., & Mayer, R. E. (2002). Learning science in virtual reality multimedia environments: Role of methods and media. *Journal of Educational Psychology*, *94*(3), 598–610. <https://doi.org/10.1037/0022-0663.94.3.598>