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**The Promotion of 5G+VR to Science Teaching in Primary Schools –
Taking “The Passage of Time” in the First Volume of the Fifth Grade of the
Education and Science Edition as an Example**

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With the increasing attention paid to 5G-assisted teaching, there is a growing need to explore the practical application of 5G+VR in science education. This paper uses the lesson “Sun Clock” in the “The Passage of Time” section of the fifth-grade education and science textbook as an example to investigate the use of 5G+VR technology in science teaching. By taking advantage of the school’s 5G network environment and smart education platform, this study aims to improve students’ learning experience and solve the problems encountered in experimental teaching. Through the use of VR technology, students were able to independently explore and understand how light and shadow are used to tell time with the help of the “Sun Clock” experiment. Students were able to observe the relationship between light and shadow and learn how to use them to tell time by combining the explanation in VR glasses and multi-angle observation of the sundial on the equipment. The study found that the use of 5G+VR technology significantly improved students’ understanding of the content and increased their sense of self-efficacy and on-the-spot experience. The implementation of 5G+VR technology in science education has solved the problems of safety concerns, limitations of experimental materials and site, and improved students’ problem-solving abilities in practical situations. The findings of this study have important implications for the integration of technology in primary school science education.

Keywords

5G, VR, Primary School Science

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