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Design principles about using simulators to improve student engagement in the physics teaching

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Incorporating new digital technologies into teaching is of fundamental importance in an interconnected world. In this sense, this work seeks to develop design principles on how to use simulators and recorded reports to improve student engagement and, consequently, learning. For this, we made a Design-Based Research (DBR) to identify the supports promoted using simulators. The main findings are that simulators accelerate learning through discussions in investigative practices and promote a type of engagement where students seek to learn beyond traditional exams.

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