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| Book Name: | [**Language, Literature and Education: Research Updates**](https://www.bookpi.org/bookstore/product/language-literature-and-education-research-updates-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6002** |
| Title of the Manuscript: | **TEACHING SCIENTIFIC CONCEPTS USING A VIRTUAL WORLD: A CASE STUDY WITH MINECRAFT** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This manuscript tackles a relevant issue in modern education - how to effectively use gaming platforms like Minecraft in science classrooms. The work is timely as schools increasingly seek engaging ways to teach STEM subjects to middle school students, who often lose interest in science during these crucial years. The practical examples of using Minecraft for teaching the water cycle and electrical circuits offer valuable insights for educators looking to integrate technology meaningfully into their lessons. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title is adequate but could be more specific. I suggest: "Enhancing Middle School Science Learning Through Minecraft: A Case Study of Virtual World Applications" - this better reflects the educational focus and target audience. |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | The abstract covers the main points but needs improvement. It should include the specific number of students involved, clearer research questions, and more concrete findings beyond general engagement improvements. The methodology section could also be more detailed. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically sound, drawing appropriately on educational theories like constructivism. The connection between Minecraft's features and learning principles is well-established. However, the research methodology needs more rigorous description to allow others to replicate the study. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The reference list is reasonable but dated. Whilst it includes important foundational works (Papert, Vygotsky), it lacks recent research from 2020-2024 on virtual learning environments, digital literacy, and game-based education. More contemporary studies on Minecraft in education and middle school science engagement would strengthen the theoretical foundation. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The writing is generally clear and academic, though some sentences are overly complex. The authors should aim for more concise expression and ensure consistent verb tenses throughout. Overall, the language is suitable for scholarly communication with minor editing needed. |  |
| Optional/General comments | The biggest weakness is insufficient methodological detail. The authors claim to use design-based research but don't explain the iterative cycles or how data was systematically collected and analysed. The study would benefit from clearer descriptions of participant selection, data collection methods, and analysis procedures.  The manuscript presents interesting practical applications of Minecraft in science education. However, it reads more like a practice report than rigorous research in its current form. With proper methodological strengthening, this could become a valuable contribution to educational technology literature.  **Priority revisions needed:**   1. Add detailed methodology section 2. Provide systematic evidence of learning outcomes 3. Update literature review with recent sources 4. Clarify data collection and analysis methods |  |

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| **PART 2:** | | |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Adit Gupta, MIER College of Education, India**