|  |  |
| --- | --- |
|  | |
| Journal Name: | [**Asian Journal of Education and Social Studies**](https://journalajess.com/index.php/AJESS) |
| Manuscript Number: | **Ms\_AJESS\_137889** |
| Title of the Manuscript: | **Development and Usability of a Smart Ripple Tank for Enhancing Understanding of Wave Concepts** |
| Type of the Article |  |

|  |  |  |
| --- | --- | --- |
| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (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.** | **Some concepts in Physics, such as wave motion, are very abstract that they need to be concretized for students to understand them. Hence, the Smart Ripple Tank developed in this manuscript helped students to visualise what actually happened when the wave motion was propagated through water. Thus, it reduced the level of abstraction in the concept by concretizing the concept for easy grasp and understanding by the students.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| 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. | Number of research questions used and at least one recommendation should be added to the abstract. |  |
| Is the manuscript scientifically, correct? Please write here. | Yes |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | **Yes but some have years below 2010 and should be removed.** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | Remove et al wherever they appear in the citations and complete all the names.  1. Research questions were not stated but were referred in the Discussion. Include research questions in the Introduction. Also include number of research questions used and at least one recommendation in the abstract. 2. The article presentation needs some rearrangement. Numbers 3.1, 3.2 and 3.3 supposed to follow immediately after number 2.3 before number 2.4. Rearrange and re-number. 3. In number 2.4, line 18, under Research Instrument, is it usability of Specific Heat Capacity Application Kit or usability of Smart Ripple Tank? Also line 22 supposed to be information from ‘respondents’ and not ‘responders’. 4. First paragraph of number 3.4 Usability Evaluation should be removed and inserted into number 2.4 Research Instrument as last paragraph. 5. Include Recommendations.   For the References, italicize the Journal names and volumes. Remove any Reference with year below 2010. Also, remove vol. And pp wherever they appear in the References.”  Generally, the manuscript is good in terms of its usability in combating students’ challenges in understanding wave motion in water. |  |

|  |  |  |
| --- | --- | --- |
| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with 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 details)* |  |

**Reviewer details:**

**Anastasia Onumazi Udoh, Nwafor Orizu College of Education, Nigeria**