

Review Form 3

Journal Name:	Asian Research Journal of Arts & Social Sciences
Manuscript Number:	Ms_ARJASS_121321
Title of the Manuscript:	Analyzing the Influence of Students' Analytical Thinking Abilities on their Mathematics Academic Performance in Mezam Division, Cameroon
Type of the Article	

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</p>	<p>This manuscript is important for the scientific community as it provides valuable insights into the relationship between students' analytical thinking abilities and their academic performance in mathematics. The study's mixed-methods approach, incorporating both quantitative and qualitative data, offers a comprehensive understanding of the factors influencing students' learning outcomes. The finding of a strong positive correlation between analytical thinking and mathematics performance highlights the need for educational interventions that target cognitive skills development. The manuscript is good for its rigorous methodology, including a reliable sample selection and data analysis process, as well as its practical implications for educators and policymakers in enhancing educational practices. However, the study could be further strengthened by including longitudinal data to assess the long-term impact of analytical thinking skills on academic performance.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The title of the article is informative and accurately reflects the content of the study. However, it could be made more concise while retaining the essential details. Here are a few alternative title suggestions:</p> <ul style="list-style-type: none"> ▪ Impact of Analytical Thinking Abilities on Mathematics Performance: A Study in Mezam Division, Cameroon ▪ Analytical Thinking and Mathematics Performance: Insights from Mezam Division, Cameroon ▪ Assessing the Role of Analytical Thinking in Mathematics Achievement in Mezam Division, Cameroon 	
<p>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.</p>	<p>The abstract is quite comprehensive, covering the main objective, methodology, sample details, key findings, and recommendations of the study. However, there are a few areas where it could be improved for clarity and conciseness:</p> <ul style="list-style-type: none"> ▪ Objective: The abstract starts with the main objective, which is clear. However, it could be more concise by not repeating phrases. For example, instead of "The main objective of the study was to analyse the influence of students' analytical thinking abilities on their mathematics academic performance in Mezam Division in Cameroon," you could say, "This study aimed to analyze the impact of students' analytical thinking abilities on their mathematics performance in Mezam Division, Cameroon." ▪ Methodology: The abstract provides detailed information about the methodology, including the mixed-methods approach, sample size, and data collection methods. While this is good, it might be more concise to combine similar information, such as the sampling technique and the instruments used for data collection. ▪ Findings: The key findings are well-presented, emphasizing the correlation between analytical thinking abilities and academic performance. It would be beneficial to briefly mention the statistical significance if it is available, as it strengthens the findings' credibility. ▪ Recommendations: The abstract includes a recommendation for educators and policymakers, which is useful. However, it could be more specific, perhaps by mentioning the types of interventions suggested. 	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript's structure is generally appropriate, but some adjustments could improve clarity and coherence. Consider integrating the "Objective of the Study" into the "Introduction" to streamline the narrative and avoid redundancy. The "Statement of the Problem" should clearly define the research gap and its significance, providing a strong rationale for the study. The "Research Questions" and "Hypotheses" should be concise, specific, and directly linked to the problem statement, guiding the research focus. Additionally, consider including a separate section after the conclusion for "Limitations" and "Recommendations" to address potential study limitations and suggest areas for future research or practical applications.</p>	
<p>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4</p>	<p>The manuscript demonstrates scientific correctness and technical soundness through its methodology and comprehensive data analysis. The use of a mixed-methods approach, combining quantitative data from a well-defined sample with qualitative insights from targeted interviews, enhances the depth and reliability of the findings. The high reliability index of the questionnaire and the use of established</p>	

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<p>sentences may be required for this part.</p>	<p>statistical techniques, such as regression analysis and thematic analysis, ensure the accuracy and validity of the results. Additionally, the study's clear focus on a specific educational context—students in Mezam Division, Cameroon—provides relevant and actionable insights, further contributing to the manuscript's scientific credibility. Overall, the manuscript's careful design and thorough analysis underscore its technical soundness and reliability in contributing to the field.</p>	
<p>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :</p>	<p>The references provided are solid and relevant, covering key aspects of analytical thinking and mathematics education. However, incorporating more recent and diverse sources could enhance the manuscript's foundation and relevance. Consider adding recent studies on analytical thinking and mathematics education to provide up-to-date perspectives. Additionally, including recent research on cognitive science and its application in educational settings could offer further insights. For example, adding references such as Schoenfeld's "Mathematical Thinking and Problem Solving" (2019) and Kuhn and Pease's review on critical thinking (2020) would contribute to the manuscript's currency and depth. Expanding the reference list with these and similar recent studies will help ensure that the manuscript is well-supported by current research and comprehensive in its coverage.</p>	
<p><u>Minor</u> REVISION comments Is the language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the manuscript is suitable for scholarly communication, it adheres to principles of clarity, precision, and formality. However, some text should be clear and precise, with proper grammar and syntax to ensure that complex ideas are communicated effectively. A formal tone and consistent use of terminology are essential for maintaining professionalism and coherence</p>	
<p><u>Optional/General</u> comments</p>	<p>Overall, the manuscript is well-structured and addresses a significant topic in the field of education, focusing on the relationship between analytical thinking abilities and mathematics academic performance. The use of a mixed-methods approach adds depth to the findings, combining quantitative and qualitative data for a comprehensive analysis. However, to enhance the manuscript's impact and readability, consider streamlining sections such as the introduction and objectives to avoid redundancy. The clarity of presentation, particularly in the methodology and findings sections, could be improved with the use of subheadings and visual aids. Additionally, expanding the reference list to include more recent and diverse studies would strengthen the manuscript's foundation and relevance. Addressing these areas would improve the manuscript's clarity, coherence, and contribution to the academic community.</p>	

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)
<p>Are there ethical issues in this manuscript?</p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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