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Demystifying the Research Problem: Key Considerations for Meaningful Inquiry

Mustapha Rakrak*
ELT Supervisor, Ibn Tofail University, Kenitra, Morocco

***Abstract*: The research problem is a foundational element in the research process, serving as the central issue or gap in knowledge that a study seeks to address. This article explores the importance of the research problem in framing the scope and direction of a research project. It examines how a well-defined research problem guides the study's design, methodology, and impact. Distinguishing between practical and theoretical research problems, the article highlights their relevance across various fields such as education and psychology. The article also discusses the steps for formulating and stating the research problem, including identifying the topic, narrowing down the research problem, justifying its significance, and addressing existing gaps in understanding. Furthermore, it emphasizes the importance of determining whether a research problem is worth investigating by considering its potential to fill gaps in literature, inform educational practice, and contribute to knowledge. The article concludes by stressing the role of the research problem in ensuring the study's relevance and guiding both researchers and readers toward a clearer understanding of the study's significance and broader implications.**

***Keywords*: Research problem, educational research, quantitative research, qualitative research.**

1. Introduction

A research problem is a clearly defined issue, concern, or gap in existing knowledge that a study aims to address. It is the starting point of any research project, framing the scope and direction of the entire investigation. At its core, the research problem identifies a specific area of inquiry that needs further exploration or clarification. It emerges from a review of existing literature, observations, real-world challenges, or theoretical gaps that need to be addressed. As Creswell (2014a) argues, "A research problem is a situation or phenomenon that needs a solution or deeper understanding" (p. 55). A research problem may arise from an unresolved question, a contradiction in previous findings, or an emerging issue that has yet to be adequately studied.

To illustrate this, we consider the issue of mental health among university students. A research problem in this context could be, "What factors contribute to the rising rates of depression and anxiety among university students in the last decade?" This problem stems from observed trends in mental health data, a lack of sufficient research on the causes behind these trends, and the growing concern among educators, mental health professionals, and policymakers. As Smith and Jones (2018) note, "University students' mental health has become a critical issue, with increasing rates of depression and anxiety presenting both challenges for educators and the need for intervention" (p. 102). In this case, the problem defines a clear focus for the study and outlines what needs to be investigated.

The research problem can be either practical or theoretical in nature. A practical problem addresses a real-world issue that has tangible consequences for individuals, communities, or organizations. For example, a study examining the effectiveness of a new teaching method in improving student engagement could address a practical problem that directly impacts educators and students. As Thompson (2019) asserts, "Research problems of a practical nature often aim to resolve real-world challenges and directly influence public policy, practices, and decisions" (p. 88). A theoretical problem, on the other hand, may involve exploring the validity of a concept or theory. For instance, investigating the relationship between socioeconomic status and academic achievement could help refine or challenge existing theoretical frameworks in education. According to Clark (2017), "Theoretical research problems are grounded in existing theories and models, seeking either to support or question their relevance in contemporary settings" (p. 73).

2. Importance of a Research Problem in Research

The research problem is fundamental to the research process because it guides every subsequent step of the study. Without a clearly articulated research problem, the study may lack focus, direction, and purpose, making it difficult for both the researcher and the reader to understand its significance. As Leedy and Ormrod (2015) point out, "A research problem helps clarify the study's purpose and establishes its relevance, ensuring that the reader understands why the study is worth their time" (p. 38). The research problem serves as the foundation upon which the study's objectives, research questions, hypothesis, methodology, and analysis are built.

A. Establishing the Study's Relevance

A well-defined research problem clarifies the purpose of the study, demonstrating why it is worth investigating. It helps the researcher and the audience understand the importance of the research within a specific context. For example, if the research problem revolves around the increasing levels of childhood

*Corresponding author: mustaphalharfi@gmail.com

obesity, the researcher is addressing a pressing health issue with far-reaching consequences. "By highlighting a real-world problem, the research problem engages stakeholders and communicates its significance to those who may be able to influence change" (Parker & Evans, 2020, p. 121). By framing the research problem clearly, the researcher establishes the study's relevance to public health policy, educational systems, and family well-being.

B. Guiding the Research Design

The research problem provides a roadmap for the study. It informs the selection of research methods, the formulation of hypotheses or research questions, and the design of data collection and analysis techniques. For instance, if the research problem focuses on understanding the impact of online learning on student performance, the researcher must decide whether to conduct qualitative interviews, quantitative surveys, or a mixed-methods approach. As Maxwell (2013) observes, "The research problem not only shapes the research questions but also guides the entire methodological approach, ensuring that the research is aligned with the problem being investigated" (p. 65). The research problem directly influences these decisions to ensure that the study produces valid and reliable results.

C. Focusing the Study's Scope

A clearly defined research problem helps to narrow the scope of the study, preventing it from becoming too broad or unfocused. In the case of a study on climate change, a research problem like "How do rising global temperatures affect agricultural productivity in sub-Saharan Africa?" is much more specific than simply asking, "What are the effects of climate change?" This specific problem guides the researcher to focus on particular regions, factors, and consequences, making the study manageable and more likely to produce actionable insights. As Kumar (2016) states, "Defining a clear research problem allows the researcher to focus on specific aspects of an issue, ensuring that the study is both feasible and effective in providing answers" (p. 112).

D. Providing Context for Interpretation

The research problem also offers context for interpreting the study's findings. By understanding the problem being investigated, readers can better assess the study's results and conclusions. For example, if a study on student performance identifies a significant drop in academic achievement due to the lack of digital resources during the COVID-19 pandemic, the research problem provides insight into why this finding is relevant and how it might inform future educational policy and practice. "Contextualizing the research problem is key to understanding the implications of the findings and their broader relevance" (Martin & Lee, 2019, p. 98).

E. Enhancing the Study's Impact and Contribution

A well-articulated research problem contributes to the significance of the study within the broader academic and societal context. It enables the researcher to address an important issue, fill a knowledge gap, or provide new insights that can drive future research, inform policy, or inspire practice. For example, a research problem focused on the social determinants of health may lead to findings that shape healthcare policies or community health interventions. As Davis (2021) highlights, "A research problem that addresses an existing gap in knowledge can lead to discoveries that influence public policy and practice, ensuring that research is not conducted in isolation but has a tangible impact" (p. 153). In this way, the research problem not only defines the study but also maximizes its potential to contribute to broader knowledge and societal progress.

3. Examples of Research Problems in Different Fields

A. Education

A research problem might address the effectiveness of remote learning in promoting student engagement and academic achievement. An example research problem could be, "How does the shift to online learning affect the academic performance and social development of elementary school children?" This question would guide a study focusing on the benefits and challenges of online education in primary schools. According to Green and Murphy (2017), "The rapid transition to online learning due to the pandemic has highlighted the need for further research into its long-term effects on student outcomes" (p. 62).

B. Public Health

A research problem could involve investigating the causes of high maternal mortality rates in rural areas. For example, "What are the key socio-economic and healthcare barriers contributing to high maternal mortality in rural communities?" This problem would direct a study aimed at identifying the factors that prevent effective maternal care in these regions. As O'Donnell and Campbell (2018) argue, "Identifying the specific social and healthcare factors affecting maternal mortality can help target interventions more effectively" (p. 47).

C. Psychology

A research problem could explore the psychological impacts of social media use among adolescents. A sample problem could be, "How does prolonged use of social media contribute to feelings of loneliness and anxiety in teenagers?" This problem would lead to research that examines the relationship between social media consumption and adolescent mental health. As Harris and Thompson (2020) assert, "The growing body of research on social media's impact on mental health calls for a deeper understanding of how it affects younger populations" (p. 89).

In summary, the research problem is the cornerstone of any scholarly inquiry. It not only defines the focus of the study but also shapes the research design, methodology, and potential outcomes. A well-articulated research problem ensures that the study remains relevant, focused, and impactful. Whether addressing practical issues or advancing theoretical knowledge, the research problem helps to frame the study in a way that highlights its significance and guides it towards meaningful contributions to the field. As O'Connor (2019) concludes, "A clearly defined research problem is the key to conducting

meaningful research that advances both academic knowledge and real-world solutions" (p. 134).

4. Research Problem and other Parts of Research

To fully understand research problems, it is helpful to distinguish them from other key components of the research process. While these elements are closely related, the research problem is distinct because it directly addresses the issue or concern that the research intends to investigate. Unlike other components such as the research topic, purpose, or research questions, the research problem defines the core issue the study aims to tackle. As Creswell (2014) notes, "A research problem provides the foundation for the study by pinpointing the specific issue to be investigated" (p. 56).

Here are the distinctions between these components:

- *Research Topic*: The research topic refers to the broad area of inquiry that the study will explore. It provides a general subject matter, but it is usually too vast to be addressed comprehensively in a single study. The research topic sets the framework for the study and indicates the field of interest. For example, a research topic might focus on the relationship between social media use and mental health among teenagers. This topic encompasses various facets, such as social media platforms, adolescent behavior, and psychological well-being, but it does not yet specify which aspect of this broad topic will be examined (Baker & Jones, 2020).
- *Research Problem*: The research problem narrows the topic down to a specific issue, challenge, or concern that the study will address. It is a clearly defined aspect of the broader topic that the researcher aims to investigate in more detail. In this case, the research problem could be the increasing levels of anxiety and depression among teenagers due to excessive social media use. The research problem identifies the critical issue within the general topic of social media and mental health, providing a specific focus for the study. As Maxwell (2013) explains, "A research problem defines the area of investigation and narrows it to a question of interest that the researcher is committed to exploring" (p. 48). The research problem addresses why this issue needs to be explored and how it contributes to a larger understanding of the topic.
- *Purpose*: The purpose of the study outlines the major objective or goal of the research, which is designed to address the research problem. The purpose statement provides a direction for the study, stating what the researcher intends to achieve by investigating the problem. For instance, the purpose of the study might be: “The purpose of my research is to examine the factors that link social media use with increased levels of anxiety and depression among teenagers.” The purpose is more focused than the research problem, and it sets the intention of the study, which helps identify the variables, influences, or processes that need to be explored to better understand the issue. Leedy and Ormrod (2015) emphasize that "A purpose statement must specify the objectives of the study in clear terms, outlining the steps the researcher will take to address the research problem" (p. 48).
- *Research Questions*: Research questions are the specific inquiries that stem from the study’s purpose and further narrow the focus of the research. These questions guide the study, helping the researcher gather relevant data and answer particular aspects of the problem. For example, specific research questions might include: “How does the time spent on social media correlate with reported levels of anxiety among teenagers?” or “What role do online interactions with peers play in the development of depressive symptoms in adolescents?” These research questions break down the study’s purpose into actionable inquiries that will guide the data collection process and provide clear paths for investigation. According to O'Connor (2019), "Research questions serve as a roadmap for the study, outlining the specific elements of the problem that the researcher intends to address" (p. 132).

Together, these components form the overall structure of the research process, with each part gradually narrowing the focus of the study.

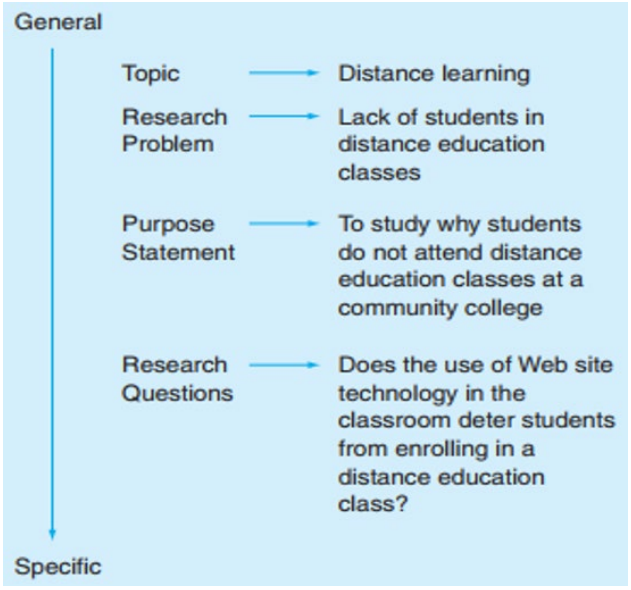

Fig. 1. The research problem and other parts of research (Creswell, 2014b, p.60)

As shown in Figure 1, the research topic is the broadest component, providing a general field of interest. The research problem refines this into a specific issue that requires investigation. The purpose outlines the primary objectives of the study, and the research questions focus on particular aspects of the problem that the study will address. As Kumar (2016) states, "Each component of the research process is interconnected, moving from a broad topic to a focused set of questions that guide the study's investigation" (p. 109). Each step builds upon the previous one, ensuring that the research

remains coherent, focused, and structured toward achieving its goals.

5. Researchable or Non-researchable

Simply because a problem exists and an author can clearly identify it does not automatically mean that it is feasible or advisable for a researcher to investigate it. A researcher can pursue a study if they have access to participants and research sites, as well as the time, resources, and expertise required to conduct the research. The decision to investigate a problem should also be guided by its potential to contribute to knowledge or improve practice (Creswell, 2014a).

In order to research a problem, researchers must secure permission to access the relevant sites and involve participants in the study. For example, if a researcher intends to study the effectiveness of a new teaching method, they may need access to classrooms, teachers, and students. This access typically requires approval from school administrators, teachers, and potentially even parents (Mertens, 2014). A researcher's ability to gain access to the necessary sites and people is an important factor in determining whether they can pursue the study (Maxwell, 2013). However, gaining access is only the first step; the researcher must also consider the practical aspects of conducting the study, such as the time, resources, and skills required to carry out the research effectively.

Time: when planning a study, researchers must account for the time needed for both data collection and analysis. Qualitative studies, in particular, tend to take more time than quantitative studies due to the extended process of collecting data in the field and the intricate analysis of textual data (Patton, 2015). For example, if a researcher is studying how teachers' perceptions of student motivation affect classroom practices, data collection might involve lengthy interviews with multiple teachers and in-depth analysis of the responses. To estimate the time required, researchers can review similar studies, contact the authors of those studies, or seek advice from more experienced researchers (Silverman, 2016). Creating a timeline helps determine if the study can be completed within the available time frame.

Resources: researchers also need resources, such as funding for equipment, participant incentives, or hiring individuals to transcribe interviews. For instance, in a study examining the impact of technology use on student learning outcomes, a researcher might need to purchase software to track student engagement or provide incentives for students to participate in surveys. A budget must be created, and advice should be sought from experienced researchers to assess the feasibility of the anticipated costs (Leedy & Ormrod, 2015). Other resources, such audiovisual equipment, may also be necessary.

Skills: the researcher's skillset is also critical in determining whether investigating the problem is feasible. Certain research skills developed through coursework, training, and previous experience are essential for effectively studying a problem. For quantitative research, these skills may include proficiency in using computers, statistical software, and creating data presentations. For example, if the researcher is using statistical analysis to examine how student participation in extracurricular activities affects academic performance, they will need skills in data processing and interpretation (Field, 2013). For qualitative researchers, the necessary skills include writing detailed narratives, synthesizing data into overarching themes, and using computer programs to manage and analyze textual data. In a study examining the effects of peer tutoring on students' self-esteem, for instance, the researcher might need to develop skills in analyzing interview transcripts to identify recurring themes and patterns (Braun & Clarke, 2006). The researcher's ability to apply these skills can significantly impact the study's success.

6. Worth Researching or Unworthy of Investigation

Deciding whether a research problem should be studied depends on the potential contribution the study will make to knowledge and practice. One of the key reasons for conducting research in education is to expand on existing information and improve educational practices. Research serves to add to the body of knowledge in a meaningful way (Creswell, 2014a). Here are five considerations to help you determine if a problem is worth researching:

A. Fill a Gap in the Existing Literature

You should consider researching a problem if it addresses an area that has been overlooked or insufficiently explored in previous studies. For instance, imagine a researcher exploring the impact of social media on adolescent self-esteem. Previous studies may have focused on the effects on teenagers, but less attention may have been given to how these effects vary across different socioeconomic backgrounds. By examining this gap, the researcher would add new insights to the literature (Mertens, 2014).

B. Replicate Past Research in New Contexts

If a research study replicates an earlier investigation but involves different participants or settings, it can expand the applicability of the findings. This is particularly valuable in quantitative studies, where the ability to generalize findings to broader populations is key. For example, consider a study that originally examined the effectiveness of a new teaching method in urban high schools. A subsequent study might replicate the research in rural schools to determine if the same results hold true across different educational environments. This helps broaden the understanding of the method's impact (Maxwell, 2013).

C. Extend Previous Research or Study a Topic More Thoroughly

A study can add value if it extends previous research or explores a topic in greater depth. For example, research on teacher-student communication in classrooms might already exist, but an extension could explore the impact of digital communication tools (like email or online forums) on student engagement. While previous studies might have examined traditional communication methods, this extension introduces new variables and offers a more comprehensive understanding of the topic (Patton, 2015).

D. Give Voice to Marginalized Groups

Research that highlights the perspectives of individuals who are often unheard or marginalized can provide valuable insights. For example, studies on student engagement might primarily focus on students in mainstream schools, but there may be little research on how students with disabilities engage in educational settings. A study focusing on the experiences of these students would not only add to knowledge but also give voice to a group that has often been overlooked in educational research (Braun & Clarke, 2006).

E. Inform Educational Practice

Research should be pursued if it has the potential to influence practical changes in education. This could involve developing new techniques, improving existing practices, or recognizing when changes are necessary. For example, a study on effective online teaching strategies could lead to the development of new guidelines for instructors teaching in digital classrooms. This kind of research directly informs teaching practices and can benefit students, teachers, and policymakers alike (Leedy & Ormrod, 2015).

7. Research Problem in Quantitative and Qualitative Research

Once you identify a research problem, it's crucial to determine whether the problem is best suited for a quantitative or qualitative approach. Since these two research methods have distinct characteristics, it's essential to align the problem with the appropriate methodology. What factors should you consider when making this decision? What types of research problems are most fitting for quantitative versus qualitative research?

For example, consider a study that examines the impact of exercise on academic performance versus a study that explores teachers' perceptions of student engagement. These studies address different types of research problems. The quantitative study on exercise and academic performance aims to identify and measure the relationship between physical activity and students' grades. The researchers hypothesize that increased physical activity improves cognitive function and, in turn, academic performance. This study seeks to measure variables and assess their impact on an outcome, which aligns with the goals of quantitative research. Conversely, the qualitative study on teachers' perceptions focuses on understanding the personal views and experiences of educators regarding student engagement. It explores how teachers interpret and respond to engagement in the classroom, a key feature of qualitative research, which seeks to explore a phenomenon in-depth and from the participants' perspective.

These two examples illustrate the difference between explaining relationships between variables (quantitative research) and exploring subjective experiences and meanings (qualitative research). Table 1 provides additional considerations to help determine whether a research problem is better suited for quantitative or qualitative research.

8. Formulating and Stating the Research Problem

Once the research problem has been identified, and its feasibility and significance confirmed, along with the selection of either a quantitative or qualitative approach, the next step involves drafting the "problem statement" for the study. This section forms the foundation of the research, offering a clear introduction to the problem being investigated. It outlines the focus of the study, explains its importance, and highlights who may benefit from the findings. The statement of the problem section typically includes five key components:

A. The Topic

The topic is the broad area of research that your study will focus on. This is the starting point for defining your research problem. It provides the general framework or context for the investigation. In educational research, a broad topic might be "student engagement in high school classrooms." This topic can be narrowed further to specific aspects, such as how different teaching strategies influence student engagement. For example, one might focus on "the impact of collaborative learning techniques on student engagement in high school science classrooms." This broad topic helps the researcher to identify the context of their research and will eventually guide the specific research problem they choose to investigate.

B. The Research Problem

The research problem is a more focused aspect of the broader topic intended for investigation. It is a clear, concise statement that identifies the issue or gap the study seeks to address. In educational research, a research problem might explore how specific teaching strategies, such as collaborative learning, influence student engagement or whether particular methods are more effective for different student groups. For example, while collaborative learning is often thought to enhance student engagement, there is limited research on its impact in high school science classrooms. In this case, the research problem could be framed as: "Although collaborative learning is believed to enhance student engagement, there is limited evidence on how it specifically affects student participation in high school science classrooms." Such a focused approach helps guide the study and defines the exact question to be explored.

C. Justification of the Importance of the Problem

In this section, the focus is on explaining why the research problem is valuable and worth investigating. This justification typically involves a review of existing research to highlight a gap in knowledge or to demonstrate the problem's significant

Table 1
A comparison between quantitative and qualitative research

Quantitative Research	Qualitative Research
Suitable for studies that involve measuring specific factors	Best for exploring individual perspectives and experiences
Used to evaluate how certain factors affect outcomes	Ideal for examining processes over time
Focuses on testing established theories or general ideas	Aims to develop new theories based on participants' views
Produces generalizable results that apply to larger groups	Provides detailed insights into a smaller group or specific setting

implications for practice. In the context of educational research, the justification might explore how gaining a deeper understanding of a specific teaching method could enhance student outcomes. For instance, while previous studies have shown that collaborative learning increases engagement in college classrooms, research in high school environments remains limited. This gap is particularly important since high school engagement is strongly linked to academic success and long-term motivation for further education. Therefore, addressing this gap could help improve student outcomes in high school science classrooms. The justification underscores the need for continued research in this area and supports the significance of examining the impact of collaborative learning specifically within the high school setting (Fredricks, Blumenfeld, & Paris, 2004).

D. Gaps in Current Understanding of the Problem

This section highlights the gaps in current research or practice related to the problem. It identifies where existing knowledge is incomplete or unclear, providing a rationale for why further study is necessary. For instance, while many studies on collaborative learning exist, few have focused specifically on its implementation in science classrooms at the high school level. Much of the existing research lacks a clear distinction between different types of collaborative learning methods and their respective impact on student engagement. As a result, there is insufficient data on the specific effects of these methods in diverse educational contexts. By identifying these deficiencies, the research problem becomes clearer, and the need for a study focused on these gaps is established. In the case of collaborative learning, it's important to understand whether certain techniques, like group problem-solving or peer teaching, are more effective than others in fostering student engagement (Slavin, 1996). The existing gap in knowledge justifies the need for this particular study.

E. Targeted Audiences

In this section, the focus is on identifying who will benefit from the findings of the research. These beneficiaries may include educators, policymakers, school administrators, or even students. By specifying the stakeholders, the relevance and potential impact of the research are highlighted. For instance, if the study examines a new teaching method, the beneficiaries could include teachers seeking more effective ways to engage their students. In the case of educational research on collaborative learning, the findings may be particularly valuable to high school educators, especially science teachers, who could gain insights into strategies that enhance student engagement and improve classroom dynamics. Furthermore, school administrators and policymakers may use the results to guide decisions related to professional development programs and curriculum design. Understanding how specific teaching methods like collaborative learning influence student engagement could also inform future educational policies and teaching practices.

In summary, the problem statement is a critical component of any research proposal or paper. It not only defines the research problem but also explains its significance and outlines how the study will address existing gaps in knowledge. By discussing the topic, research problem, justification, knowledge deficiencies, and target audience, a clear and comprehensive introduction to the study is provided. This organized approach helps to clarify the importance of the research, offering a rationale for its execution and guiding both the researcher and the audience toward a more profound understanding of the problem and its broader implications.

9. Conclusion

In conclusion, the research problem is the cornerstone of any research study, providing a clear direction and focus for the entire investigation. It not only identifies a specific issue or gap in existing knowledge but also establishes the significance of the study by framing the problem in a way that guides subsequent research steps. A well-articulated research problem is essential in shaping the study's design, methodology, and outcomes, ensuring that the study remains relevant and impactful. Whether addressing practical challenges or advancing theoretical understanding, the research problem plays a critical role in informing both the research approach and its broader implications. Moreover, determining whether a research problem is worth investigating requires careful consideration of its potential contribution to filling knowledge gaps, improving practices, and addressing real-world issues. By clearly defining the research problem, researchers can ensure that their work not only contributes to academic knowledge but also has practical applications that benefit stakeholders, such as educators, policymakers, and practitioners.

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