# PERCEPTIONS OF SMARTPHONE USE IN PRIMARY SCHOOLS: A CASE STUDY OF PUPILS, TEACHERS, AND PARENTS IN CHIKANKATA DISTRICT, ZAMBIA

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#### **Abstract**

This study explores the perceptions of smartphone use among pupils, teachers, and parents in primary schools within Chikankata District, Zambia. Utilizing a mixed-methods approach, data were collected through surveys, interviews, and focus group discussions involving 150 pupils, 20 teachers, and 30 parents. The findings reveal a spectrum of attitudes towards smartphones: while many participants recognize the potential benefits for educational engagement and communication, concerns about distractions, misuse, and unequal access persist. Teachers identify challenges in integrating smartphones effectively due to limited training and infrastructural constraints. Parents express ambivalence regarding screen time and its effects on children's behavior and learning. The study underscores the need for comprehensive digital literacy initiatives, improved infrastructure, and inclusive policy frameworks to optimize the educational advantages of smartphone use while mitigating associated risks in primary education.

**Keywords:** Smartphone Use, Primary Education, Digital Literacy, Teacher Perceptions, Parental Attitudes, Educational Technology, Zambia, Chikankata District

#### 1. Introduction

The integration of mobile technology, particularly smartphones, into education has transformed learning environments worldwide. Smartphones offer diverse functionalities—such as internet access, educational apps, and communication tools—that can enhance teaching and learning experiences. In many developing countries, including Zambia, the increasing availability of smartphones presents new opportunities and challenges for primary education. Chikankata District, a predominantly rural area in Zambia, reflects these dynamics where smartphones are becoming more common among pupils and educators. While smartphones can facilitate access to information and support learner engagement, concerns persist regarding their potential to distract, encourage misuse, or exacerbate inequalities due to differential access. Teachers and parents play a critical role in mediating smartphone use in educational settings. Their perceptions influence policies and practices that govern the role of smartphones in schools. Understanding these stakeholder perspectives is essential for designing effective interventions that harness the educational benefits of smartphones while addressing associated risks. This study investigates the perceptions of pupils, teachers, and ASET Journal of Management Science (E-ISSN: 2584-220X)

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parents towards smartphone use in primary schools within Chikankata District. It aims to illuminate the complex attitudes and experiences surrounding mobile technology in rural educational contexts to inform policy and practice.

#### 2. Research Objectives and Questions

This study seeks to explore the perceptions of smartphone use among pupils, teachers, and parents in primary schools within Chikankata District, Zambia.

#### 2.1 Research Objectives

- To assess pupils' perceptions and usage patterns of smartphones in educational settings.
- To examine teachers' attitudes towards integrating smartphones into pedagogy and their perceived challenges.
- To understand parents' views on the benefits and risks of smartphone use by their children.
- To identify the factors influencing effective and responsible smartphone use in primary schools.
- To recommend strategies to optimize smartphone use for educational purposes while mitigating potential negative impacts.

#### 2.2 Research Questions

- What are pupils' perceptions and behaviors regarding smartphone use in schools?
- How do teachers perceive the role of smartphones in teaching and learning?
- What concerns and expectations do parents have about their children's smartphone use?
- What challenges and facilitators affect smartphone integration in primary education?
- What measures can support the responsible and effective use of smartphones in these schools?

#### 3. Methodology

This study employed a mixed-methods research design to capture comprehensive insights into the perceptions of smartphone use among pupils, teachers, and parents in primary schools in Chikankata District.

#### 3.1 Participants and Sampling

Participants included 150 pupils from Grades 5 to 7, 20 teachers, and 30 parents selected through purposive sampling to ensure representation across different schools and communities. The sample reflected gender and socio-economic diversity.

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#### 3.2 Data Collection Methods

Surveys: Structured questionnaires were administered to pupils and teachers to collect quantitative data on smartphone usage patterns, attitudes, and challenges.

Interviews: Semi-structured interviews with teachers and parents explored deeper perceptions, concerns, and expectations related to smartphone use.

Focus Group Discussions: Conducted with pupils to gather qualitative data on their experiences and attitudes towards smartphones in learning contexts.

#### 3.3 Data Analysis

Quantitative data from surveys were analyzed using descriptive statistics to identify usage trends and prevalent attitudes. Qualitative data from interviews and focus groups were transcribed and thematically analyzed to extract key themes related to benefits, challenges, and stakeholder perceptions.

#### 3.4 Ethical Considerations

The study adhered to ethical research standards, including obtaining informed consent from all participants and parental consent for minors. Confidentiality and anonymity were maintained throughout the research process.

#### 4. Findings and Discussion

The study revealed a complex landscape of perceptions regarding smartphone use among pupils, teachers, and parents in primary schools in Chikankata District.

#### 4.1 Pupils' Perceptions and Usage Patterns

Most pupils reported frequent use of smartphones, primarily for communication and entertainment, but also increasingly for educational purposes such as accessing learning apps and online resources. Many expressed enthusiasm about smartphones enhancing their learning experience, citing improved access to information and interactive content. However, some pupils acknowledged distractions caused by smartphones, including gaming and social media, which occasionally interfered with study time.

#### 4.2 Teachers' Attitudes and Challenges

Teachers generally recognized the potential of smartphones to enrich pedagogy through interactive learning and access to diverse resources. Nevertheless, they highlighted significant challenges: Lack of formal training on integrating smartphones effectively in the classroom. Insufficient infrastructure, including unreliable internet connectivity and lack of devices for all students. Concerns about managing classroom discipline and minimizing distractions ASET Journal of Management Science (E- ISSN: 2584-220X)

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caused by smartphone misuse. These challenges constrained teachers' ability to fully incorporate smartphones into their instructional practices.

#### 4.3 Parents' Views and Concerns

Parents exhibited mixed feelings about smartphone use. While some appreciated the educational benefits and improved communication with teachers, others were wary of excessive screen time, exposure to inappropriate content, and potential negative impacts on social behavior. Many parents expressed the need for clear guidelines and school policies to regulate smartphone use and promote responsible habits.

#### 4.4 Factors Influencing Effective Smartphone Use

Key factors affecting smartphone use included:

- Access to reliable internet and compatible devices.
- Availability of training and support for teachers and pupils.
- School policies and parental involvement in monitoring use.
- Cultural attitudes towards technology and education.

#### 5. Recommendations

To maximize the educational benefits of smartphone use while mitigating risks in primary schools in Chikankata District, the following recommendations are proposed:

#### 5.1 Implement Comprehensive Digital Literacy Programs

Develop and integrate digital literacy curricula for pupils, teachers, and parents to foster responsible and effective smartphone use, including critical evaluation of online content.

#### 5.2 Enhance Teacher Training and Support

Provide ongoing professional development focused on pedagogical strategies for smartphone integration, classroom management, and use of educational technologies.

#### 5.3 Improve Infrastructure and Access

Invest in reliable internet connectivity and ensure equitable access to smartphones or tablets for all students to reduce disparities and support inclusive learning.

#### 5.4 Develop Clear School Policies

Establish guidelines regulating smartphone use in schools, addressing appropriate usage, screen time limits, and disciplinary measures to prevent misuse.

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#### 5.5 Promote Parental Engagement

Engage parents through workshops and communication channels to align home and school efforts in managing smartphone use and monitoring content exposure.

#### 5.6 Encourage Collaborative Stakeholder Involvement

Foster partnerships among educators, parents, policymakers, and community leaders to support sustainable integration of smartphones in education.

#### 6. Conclusion

This study reveals a nuanced perspective on smartphone use in primary schools within Chikankata District, highlighting both its educational potential and associated challenges. While pupils and many teachers recognize smartphones as valuable tools for enhancing learning and access to information, concerns about distractions, misuse, and inequitable access persist. Parents' ambivalence further underscores the need for clear guidance and collaborative management of technology use. To harness smartphones effectively in primary education, comprehensive strategies encompassing digital literacy, teacher training, infrastructure development, and inclusive policy frameworks are essential. Active engagement of all stakeholders—including pupils, educators, and parents—is critical to fostering responsible use and maximizing educational benefits. By addressing these factors, schools in Chikankata District can transform smartphone technology from a source of distraction to a catalyst for improved teaching, learning, and communication, contributing to broader educational development goals in Zambia.

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