

A Study of Students' Interest in Mathematics in Relation to School Environment

DISSERTATION

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DECLARATION

I hereby declare that the dissertation titled "**A STUDY OF STUDENTS INTEREST IN MATHEMATICS IN RELATION TO SCHOOL ENVIRONMENT**" has been conducted by me during the academic year 2024-2025 under the guidance of Associate Prof. **Dr. SAURABH KUMAR**, Department of Education, Regional Institute of Education, National Council of Educational Research and Training (NCERT), Bhopal, Madhya Pradesh.

I confirm that this research work is original and authentic, and it does not include any part of work that has been submitted for the award of any degree at Barkatullah University or any other university, except where due citation has been provided. Whenever contribution on others is involved, every effort is made to indicate this clearly, with due reference to the literature, and acknowledgement. I assert the statements made and drawn are an outcome of my dissertation work.

I further declare that the result presented in the study and the considerations made there in contribute in general to the advancement in understanding educational interventions.

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CERTIFICATE

This is to certify that the content of this dissertation entitled “**A STUDY OF STUDENTS INTEREST IN MATHEMATICS IN RELATION TO SCHOOL ENVIRONMENT**”, is the original research work of Miss AAMNA SAFI, (int)B. Ed-M. Ed. (Session 2022-2025) and carried out under my guidance at Regional Institute of Education, NCERT, Bhopal for the partial fulfillment of degree of B. Ed-M.Ed. (Integrated) of Barkatullah University Bhopal.

It is her genuine work and I consider it worthy of submission for the award of the degree.

I further certify that the work has not been submitted either partly or fully to any other University or institution for the award of any degree.

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ABSTRACT

There are various factors that affect the perception and interest of a child. Overall educational pedagogical practices, teacher training, school facilities and school environment favor's the development of students' interest in a particular subject as mathematics. School environment refers to the psycho social climate of school as perceived by the pupils. The present study was conducted to find out the relationship between students' interest in mathematics in relation to the school environment. The design selected for this study is comparative and correlational which is descriptive in nature. To carry out the present study the population comprises students of class 9th studying in secondary schools located in Bhopal district of MP. The sample size of study consists of 120 students. Stratified random sampling methods were used from different schools of Bhopal. Mathematical interest record by L N Dubey and school environment by Dr. Anita Soni and Dr. Ashok Sharma was used for present study. The data analyzed by pearson's product moment correlation. The findings of study show that there exists a significant difference in mathematical interest between boys and girls. Boys show higher average interest in mathematics than girls. There exists a significant difference in mathematical interest between boys and girls of private school students in comparison to government school students. There exists a significant difference in CBSE and private school students generally scored higher on interest and school environment scales. Result of the present study reveals that there exists a positive moderate correlation ($r = 0.46$) that confirms a significant relationship between school environment and mathematical interest. This supports the hypothesis that a better school environment encourages more interest in mathematics, also that school environment significantly influences interest levels. Qualitative responses confirm the role of teaching quality, classroom atmosphere, and personal experiences also as an influencing factor's in students' mathematical interest. Conclusion: Students' attitudes toward mathematics are shaped by personal confidence and school experiences. A motivating teacher and interactive classroom significantly improve perceptions.

KEYWORDS: students' interest in mathematics, school environment.

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LIST OF ABBREVIATIONS

Abbreviation Description

1. NEP – National Education Policy (2020)
2. RIE – Regional Institute of Education
3. NCERT – National Council of Educational Research and Training
4. NCTE – National Council for Teacher Education
5. NAAC – National Assessment and Accreditation Council
6. CSIR – Council of Scientific and Industrial Research
7. WHO – World Health Organization
8. UNESCO – United Nations Educational, Scientific and Cultural Organization
9. NSF – National Science Foundation
10. DMS – Demonstration Multipurpose School
11. HSS – Higher Secondary School
12. M. P – Madhya Pradesh

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