

# Combined Effect of Scientific Interest, Career Aspirations, and Learning Styles on Academic Achievement of Secondary School Students

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**Abstract:** Various related factors influence the academic performance of the students in secondary schools such as scientific interest, career aspirations and learning styles. The scientific interest helps students to show interest and involvement in the sciences and this increases motivation and comprehension of the complex subjects. Career aspirations help students work hard and strive towards achieving long-term educational and occupational ambitions. There are learning styles, which include, visual, auditory, kinesthetic, and reading/writing styles, which ascertain how students acquire and accept information. This paper is an interaction study of these variables and their effect on academic performance. The survey involved the use of standardized instruments in surveying 300 secondary school students and analysis of their academic records. Descriptive statistics, correlation, multiple regression, and moderation analysis were used to analyze the data. The results indicate that academic performance is a dependent factor on scientific interest and career goals. This relationship was observed to be mediated by learning styles, which implied that personalized teaching strategies can be used to improve learning. The research focuses on nurturing scientific interest, facilitating career objective, and student-centered teaching skills in enhancing learning

**Keywords:** Academic Achievement, Scientific Interest, Career Aspirations, Learning Styles, Secondary School Students, Educational Outcomes