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Family Factors as Predictors of Science Achievement Among Secondary School Students: A Study in Manipur State, India

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ABSTRACT This study investigates the influence of family-related factors, such as the family type, parents' occupation and their educational qualification, on the science achievement of secondary school students in Manipur, India. A descriptive-normative survey design was employed, involving a stratified random sample of 1,195 students from 20 secondary schools affiliated with the Board of Secondary Education, Manipur, during the 2022-2023 academic year. Data were collected using the Science Achievement Test, constructed and standardised by the researchers. Statistical tools such as mean, standard deviation, t-value, and p-value were applied to analyse and interpret the data. Results indicated varying degrees of influence of family-related factors on students' science achievement. It highlights the importance of considering socioeconomic and family background variables in understanding science achievement. The findings have implications for educators and policymakers aiming to design equitable and targeted interventions that support science education across diverse family settings.