

Study of Gender Differences in Mathematics

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Abstract: Mathematics is an essential subject at every stage of learning. The importance of mathematics lies in the excellent application and practice of theoretical knowledge, which in turn requires a very high level of logic from students. Statements such as “boys are better at logic and maths” and “girls are better at liberal arts” are frequently discussed in the realm of education, leading to the formation of stereotypes. Research has shown differences in the physiology, mindset, and upbringing of boys and girls, which are the main factors influencing students’ mathematics performance. The differences in the physiology of males and females will be first analyzed, including differences in brain structure and hormone production, which leads to the differences in thinking and emotions between males and females. Secondly, the deeper reasons why male and female students perform differently in mathematics will be explored based on a thorough understanding of the subject’s characteristics, guided by several theories about stereotypes. Finally, the different approaches to learning resulting from the different psychological phenomena between male and female students will also be discussed as an essential factor in the differences between the male and female performance in mathematics.

Keywords: gender, social psychology, mathematics, stereotype

1. Introduction

Mathematics is a universal means for humanity to describe and derive things’ abstract structures and patterns rigorously. In the development of human history and social life, great mathematicians have invented many theories of practical significance, so mathematics can be applied to the real world to solve complex problems. Mathematics plays an irreplaceable role and is an essential tool for studying modern science and technology to help society develop, which is why people need to look at children’s ability to learn mathematics at the educational level [1].

As a result, the factors contributing to mathematical ability’s strengths and weaknesses are also widely discussed in the academic field. Among these discussions, the differences in mathematical performance due to gender differences have stirred up intense sparks. A report from the CST Digital Library shows that, from a national perspective, countries with significant gender differences and where male students are better at mathematics include Tunisia and South Korea. In comparison, countries, where female students are better at mathematics include Jordan and Bahrain. However, the USA, Sweden, and Germany show no gender differences [2].

Some educationalists also argue that some female students excel in mathematics at the junior high school level but often pale compared to their mathematical studies at the senior high school level.

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