

Development and Application of the Democratic Chemistry Classroom Environment Inventory (DCEI) in Iranian Universities

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Abstract

This article reports the development and application of the Democratic Chemistry Classroom Environment Inventory (DCEI) which assesses students' perceptions of six dimensions of their actual and preferred classroom environment: Equality, Important knowledge, Participatory decision-making, Inclusiveness, Rights and Authority. The DCEI was field tested with a sample of 510 Iranian first and second year undergraduate students in 23 chemistry classes. Various analyses attested to each scale's reliability, factorial validity, and ability to differentiate between the perceptions of students in different classes. The data from this instrument is equally valid in its actual and preferred versions. In addition, comparison of Iranian university students' scores on actual and preferred forms of the questionnaire revealed that students, within a democratic education framework, were not satisfied and preferred a more positive chemistry environment on all scales. The work is unique because it is the first classroom environment study which is concerned about democratic education ideas in chemistry classrooms and provides one of the few classroom environment studies conducted in Iran.

Keywords: Democratic Education, Chemistry Classroom Environment, the DCEI, Learning Environments Research, Students' Satisfaction

Introduction

Education should make individuals aware of their responsibilities towards their state and themselves, and to carry out these responsibilities. Students should be taught their constitutional rights of freedom and equality of opportunity, and justice should be provided while applying those rights. One of the places to teach individual rights and responsibilities is the classroom but one cannot teach democracy through non-democratic methods and the principles of a democratic society have to be 'lived' in the classroom if learners are going to understand the full impact of their meaning (Sartor & Brown, 2004).

Becoming an engaged democratic citizen begins by practicing democracy in the classroom. It is in this first community that students should learn to exercise voice; to make choices and take responsibility for their own learning; and to understand, give, and receive fair, equitable and respectful treatment. It is in this environment that they should feel safe to express ideas, explore leadership, and to participate in guiding the classroom community. In the everyday life of the classroom, students should experience democracy at every opportunity, and should cultivate an appreciation of the democratic process.

Democratic education is a relatively new topic in the educational research field. The theoretical aspects of the idea are already well explored and a large number of studies propose different attributes and principles of democratic education (Knight & Pearl, 2000), its

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Democratic Chemistry Classroom Environment Inventory Dcei Development And Application

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Becoming an engaged democratic citizen begins by practicing democracy in the classroom This book describes the development of a new instrument for assessing students perceptions of the psychosocial environment that should exist in democratic chemistry classrooms and reports comprehensive validation information for a large sample of chemistry university students This book is a good source for those educators who want to create democratic classroom environments in which students learn to exercise voice to make choices and take responsibility for their own learning and to understand give and receive fair equitable and respectful treatment

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