

INTRODUCTION

High school students have alternative conceptions about chemistry which stays with them as college students (Sirhan, 2007; Sanger, 2005). Misconceptions or alternative conceptions, conceptions that differ from experts, are of significant importance to measuring conceptual understanding (Caleon & Subramaniam, 2010). Any concept that student holds and is inconsistent with the established consensus is called a misconception or alternative conception (Smith et al., 1994). Research suggests that students continue to hold onto their alternative conceptions even after instruction in science courses. For example, student hold onto their alternative conceptions when learning about gas particles and they could not accept the fact that gas particles have the same mass as solids (Mayer, 2011). The alternative conceptions stay with students and impede their conceptual understanding of chemistry concepts. Learning new science concepts is influenced by alternative conceptions and is viewed by it (Duit & Treagust, 1995; Taber, 2015). Students ranging from middle school to doctoral level can possess alternative conceptions about chemistry (Bodner, 1991). Researchers have found that alternative conceptions or misconceptions are resistant to extinction with instruction (Craoalice & Busby, 2015).

Some research results suggest that high school graduates were not able to fully understand some basic concepts covered in chemistry which include molecular geometry, atomic structure, particulate nature of matter, stoichiometry, chemical bonding, gases, chemical equilibrium, and phase equilibria (Fajardo & Bacarrisas, 2017). Furthermore, students enrolled in general chemistry have been found to possess a number of alternative conceptions about the topics (Bowen & Bunce, 1997), which include particulate nature of matter, properties of matter, gases, evaporation, condensation melting, freezing, chemical reactions, dissolving, acids, bases, chemical bonding, thermodynamics, and chemical equilibria. These alternative conceptions can have a negative impact on learning and may persist with students even after instruction (Nakhleh, 1992; Poehnl & Bogner, 2013). Students hold onto their alternative conceptions and to cause a conceptual change, adequate instruction and active learning are needed (Soneral & Wyse, 2017). Traditional lecture format does not address conceptual change or promote conceptual understanding of chemistry.

Student achievement depends on three factors: students' mathematical ability which plays a role in students' achievement in general chemistry courses and can a predictor success in these courses (Cooper & Pearson, 2012), prior knowledge which significantly influences students' achievement (Seery, 2009), and attitude towards the subject matter which can also have an effect on performance and achievement (Bauer, 2008). The three factors can be influenced by teaching method and strategy.

Chemistry Concepts Inventory (CCI) is a test aimed at evaluating students' conceptual understanding of general chemistry concepts (Mullford & Robinson, 2002). The CCI is a multiple-choice test that is unique in the inclusion of distractors which are related to the alternative conceptions that students may possess. Assessing students' conceptual understanding in science diagnostic tools has been developed and studies in the past four decades (Treagust, 1988; Caleon & Subramaniam, 2010). CCI validity has been

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