

Sources of students' difficulties in learning Chemistry

David Treagust,¹ Reinders Duit,² and Martina Nieswandt³

Abstract

Chemistry is a difficult subject to teach and to learn at both secondary and tertiary levels. Major learning difficulties are due to the particular views of chemistry phenomena that in many ways contradict intuitive and everyday views of the learners. As a result, major misunderstandings occur when students try to comprehend chemical explanations within the framework of their pre-instructional conceptions. This paper describes research findings on students' pre-instructional conceptions in the domain of chemistry and on attempts to guide students from their conceptions to the core ideas of chemistry. Rather than providing an overview of students' conceptions in various topics, we review learning difficulties from the perspectives of the challenge of multiple representations and the relation of chemistry to everyday experiences, including understanding the special language of chemistry. We believe that these perspectives contribute substantially to the limited success of teaching and learning chemistry.

Studies on understanding and learning chemistry

Understanding and learning core science concepts and principles, including those in chemistry, are difficult; many research studies have revealed major learning difficulties and identified key causes of these difficulties. A large number of intervention studies have attempted to address these difficulties by examining the role of students' preinstructional conceptions in the learning process. Further readings in this area are the bibliography by Pfandt and Duit (1998), general reviews of studies on learning science by Treagust, Duit and Fraser (1996) and by Duit and Treagust (1998), and a review on conceptual change approaches in science by Hewson, Beeth, & Thorley (1998).

There is overwhelming empirical evidence in the literature that what students already know is the key factor in learning. Usually students' preinstructional conceptions provide frameworks that are not in accordance with the science conceptions to be learned. From a constructivist perspective, which is the predominating contemporary view of learning in science education, every observation and every sensual input of any other kind has to be interpreted by the receiver (Steffe & Gale, 1995; Tobin, 1993). Students construct their own meanings of observations that they make when experiments are presented, pictures are shown, and explanations are given by the teacher or the textbook. The only interpretive frameworks that students possess are the conceptions gained in daily life or in science classes. As a result, in making sense of what is presented in science classes and in textbooks, sometimes students construct meanings that are in contrast to the expected chemistry view. Within this constructivist perspective, learning is not seen as the intake of knowledge that is delivered by the teacher and teaching is not viewed as transfer of knowledge from teacher or textbook to the head of the students. Rather, learning is viewed as an active construction process of the learner and teaching is designed to support and nurture this construction process. Accordingly, learning science can be a painstaking process of a sequence of gradual changes of students' preinstructional conceptions towards science conceptions (Vosniadou & Ioannides, 1998). The term conceptual change is usually employed to point to this process because it denotes that major changes of the initial conceptual frameworks are necessary when science concepts and principles are learned.

Most of the 3000 or so studies on learning difficulties in science reported by Pfandt and Duit (1998) have been carried out in the domain of physics (70%), with much less in biology (20%) and even less in chemistry (10%). Consequently, most general results on the role of preinstructional conceptions in the learning process and on the effect of conceptual change approaches to learning draw on findings from physics, although studies in biology and chemistry do contribute to these insights.

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