Science writing heuristic: An inquiry-based laboratory approach to promote science achievement in general chemistry laboratory

Subject and Problem

Driver and Oldham (1986) claimed that one of the most important problems which are tried to be solved in science education is that science education based much more on memorizing. Erkol, Kışoğlu, and Büyükkasap (2010) stated that in Turkish education system, similar problem exists. Moreover, it is emphasized that laboratories should be used actively in science lessons, so science teachers should avoid using cook book type lab activities. One of the approaches that fulfill this need is the SWH approach which is developed by Hand and Keys (1999).

Hand and Keys (1999) developed Science Writing Heuristic to promote student dialog and social negotiation during inquiry activities. According to Akkus, Günel and Hand (2007),

The SWH helps students develop a deeper understanding of the big ideas of science contents through the phases of student template/plan, which is constructing and testing questions, justifying their claims with evidence, comparing their ideas with those of others, and considering how their ideas have changed through this process (p. 1746).

Specifically, the SWH is a teaching approach that provides learners with a heuristic template to guide their science laboratory activities using argumentation, negotiation and writing (Arnold, 2011). In addition, the SWH provides the teacher with a template to facilitate student learning during laboratory exercises. Teachers serve as facilitators who continually direct students to negotiate meanings of particular concepts; they do not serve as interpretive experts.

When compared with a more traditional laboratory report in which the students are guided by teacher and teacher tells them to complete title, purpose, procedure and so on, SWH laboratory reports require deeper thinking and understanding scientific concepts with prompting questions (Hand and Keys, 1999). The distinctions between two laboratory reports were presented in Table

Table 1. Comparison of the SWH and traditional laboratory formats

SWH Laboratory Format	Traditional Laboratory Format
Beginning questions or ideas	 Title and purpose
 Tests and procedures 	 Outline of procedure
Observations	 Data and observations
Claims	 Discussion
Evidence Reflection	 Balanced equations, calculations, or graphs
- 1101100000000000000000000000000000000	No equivalent for Reflection

Moreover, inquiry based teaching approaches such as SWH are designed to make the students active participants. According to Khan, Hussain, Riasat, Majoka, and Ramzan (2011)'s research, if students are active in constructing their own knowledge, their achievement and motivation for science studies are improved dramatically. Hand, Wallace, and Yang (2004) reported that, when inquiry-based SWH approach was implemented, students in the SWH classrooms performed significantly better than students in traditional classrooms. Promotion of higher order thinking and learning also requires students' active engagement through discussion, dialogue, and argumentation (Gillies & Khan, 2008). Therefore, students' engagement in discussions and tasks

A Laboratory Approach To Writing

Raffaela Di Napoli

A Laboratory Approach To Writing:

A Laboratory Approach to Writing Carol Feiser Lague, Phyllis A. Sherwood, 1977 A Teaching Monograph Carol Feiser Lague, Phyllis A. Sherwood, 1975 The Idea of a Writing Laboratory Neal Lerner, 2009-07-09 The Idea of a Writing Laboratory is a book about possibilities about teaching and learning to write in ways that can transform both teachers and students Author Neal Lerner explores higher education s rich history of writing instruction in classrooms writing centers and science laboratories By tracing the roots of writing and science educators recognition that the method of the lab hands on student activity is essential to learning Lerner offers the hope that the idea of a writing laboratory will be fully realized more than a century after both fields began the experiment Beginning in the late nineteenth century writing instructors and science teachers recognized that mass instruction was inadequate for a burgeoning non traditional student population and that experimental or laboratory methods could prove to be more effective Lerner traces the history of writing instruction via laboratory methods and examines its successes and failures through case studies of individual programs and larger reform initatives Contrasting the University of Minnesota General College Writing Laboratory with the Dartmouth College Writing Clinic for example Lerner offers a cautionary tale of the fine line between experimenting with teaching students to write and curing the students of the disease of bad writing The history of writing within science education also wends its way through Lerner's engaging work presenting the pedagogical origins of laboratory methods to offer educators in science in addition to those in writing studies possibilities for long sought after reform The Idea of a Writing Laboratory compels readers and writers to don those white coats and safety glasses and discover what works and asserts that teaching writing as an experiment in what is possible as a way of offering meaning making opportunities for students no matter the subject matter is an endeavor worth the struggle A Theatre Laboratory Approach to Pedagogy and Creativity Tatiana Chemi, 2017-10-20 This book considers the pedagogy of the theatre laboratory focusing on seminal theatre group Odin Teatret It provides a detailed discussion of the historical background to theatre laboratories including their conception before moving on to specific examples of how the work at Odin Teatret crosscuts creativity pedagogy and research practices The book draws on a range of insightful sources including historical readings and previous literature interviews with members of the theatre group autoethnographic pieces and personal experiences Its unique narrative brings fresh insights into how to establish inquiry based learning laboratories in order to re think higher education It will be an invaluable resource for students and academics working on performance creativity studies and pedagogy Landmark Essays on Writing Centers Christina Murphy, Joe Law, 2013-10-18 This collection introduces the reader to the ideas that have shaped writing center theory and practice The essays have been selected not only for the insight they offer into issues but also for their contributions to writing center scholarship These papers help to chart the legitimation of writing centers by providing both a history and an examination of the philosophies praxis and politics that have defined this emerging field They demonstrate the ways a clearer profile of the discipline has emerged from the research and reflection of writers like those represented here This volume charts the emergence of writing centers and the growing recognition of their contributions roles and importance As a nascent discipline writing centers reflect the concerns with marginality and with finding a respected place in the academy that characterize any new field of academic inquiry practice and research Concomitantly professionals in these fields seek standing within the academy and a way of defining and validating their contributions to the educational process Contemporary writing center theorists look to interdisciplinary and multidisciplinary investigations to interpret the work they do and to clarify their aims to the academy at large Their work employs a variety of philosophical perspectives ranging from sociolinguistics to psychoanalytic theory to show the complex nature and potential of writing center interactions. The idea has now become the multidimensional realities of the writing center within the academy and within society as a whole What its role will be in future redefinitions of the educational process how that role will be negotiated and evaluated and how professionals will shape educational values will constitute the future landmark directions and essays on writing center theory Writing Program Administration at Small Liberal Arts Colleges Jill M. Gladstein, Dara Rossman and practice Regaignon, 2012-03-19 WRITING PROGRAM ADMINISTRATION AT SMALL LIBERAL ARTS COLLEGES presents an empirical study of the writing programs at one hundred small private liberal arts colleges Jill M Gladstein and Dara Rossman Regaignon provide detailed information about a type of writing program not often highlighted in the scholarly record and offer a model for such national multi institutional research The Writing Center Director's Resource Book Christina Murphy, Byron Stay, 2012-11-12 The Writing Center Director's Resource Book has been developed to serve as a guide to writing center professionals in carrying out their various roles duties and responsibilities It is a resource for those whose jobs not only encompass a wide range of tasks but also require a broad knowledge of multiple issues. The volume provides information on the most significant areas of writing center work that writing center professionals both new and seasoned are likely to encounter It is structured for use in diverse institutional settings providing both current knowledge as well as case studies of specific settings that represent the types of challenges and possible outcomes writing center professionals may experience This blend of theory with actual practice provides a multi dimensional view of writing center work In the end this book serves not only as a resource but also as a guide to future directions for the writing center which will continue to evolve in response to a myriad of new challenges that will lie ahead **Learning in a Writing Laboratory** Tatiana Chemi, Kristian Firing, 2024-09-30 This book is an exploration of a collective writing laboratory designed to stimulate creativity and critical reflection for education professionals The authors uncover how a writing lab can help educators develop their teaching practices and identities by means of critical creative collaborative relational and arts based methodologies A theoretical insight into pedagogies of love and freedom illustrating how laboratory practices in education can become acts of daily care the book will appeal to students and scholars of education arts based methods and creativity Handbook of Research on

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