

Causes Of Students' Learning Difficulties In Secondary School Chemistry: A Study In Context Of Content And Assessment Strategies

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Abstract

Chemistry is often regarded as a difficult subject, an observation which sometimes repels learners from continuing with studies in chemistry. The objectives of the study were to explore the content of chemistry and assessment strategies as a cause for students' learning difficulty in chemistry. The nature of the research was descriptive and quantitative data collection procedures were used to conduct it. The population was comprised of all public and private school systems which have ten or more than ten branches in Lahore. Multistage sampling techniques have been used in it. Questionnaire was used as a data collection tool in the study. Cronbach's Alpha was 0.879 while the minimum criteria of Cronbach's Alpha is 0.75 for reliability. The findings shows that the level of secondary students' perceptions about chemistry content and assessment strategies, as cause of learning difficulties, were at high level of agreement. The students of public and private shows high level of agreement toward content as a cause for difficulty in learning chemistry while as perceptions of private students shows high level of agreement as compared to public school students toward assessment strategies as a cause for difficulty in learning chemistry. It was recommended that teachers should use effective formative assessment methods for better understanding and learning of chemistry at secondary level.

Keywords: chemistry content, assessment strategies, learning difficulties, secondary school students

Introduction

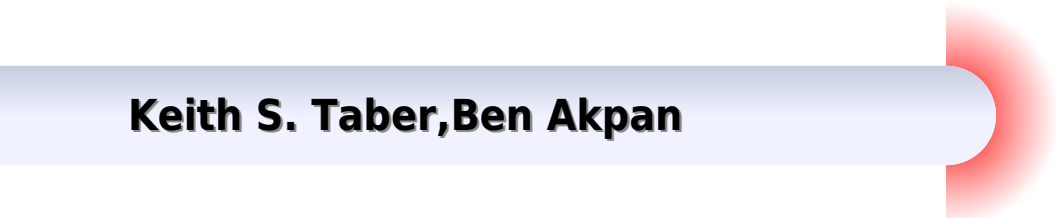
Students think chemistry is really complicated. As a result, most students give up on the subject. To accomplish meaningful learning, it is vital to demonstrate its application to daily life, to the growth of a nation, and to societal progress. When a student can combine what they are learning into the frameworks of past knowledge they already have, learning becomes meaningful to them. (Blanco-Lopez, Serrano-Angulo, & Lopez-Guerrero, 2022). The Cambridge Dictionary of Psychology defines learning

difficulty as the inability to perform or comprehend knowledge. Another definition of difficulty is a learning or emotional issue that impairs, or significantly impacts, a person's capacity to learn (Sabit, 2021). In this particular instance, the research seeks to pinpoint the pupils' struggles with secondary-level chemistry content learning.

One of the most significant areas of science is chemistry, which gives students the ability to comprehend their surroundings. For many students, chemistry is a challenging subject

Difficulties Of Student In Learning Chemistry

Keith S. Taber, Ben Akpan



Difficulties Of Student In Learning Chemistry:

Improving Assessment and Evaluation Strategies on Online Learning Surjani Wonorahardjo, Sari

Karmina, Habiddin, 2022-06-10 ICLI is an annual International Conference on Learning Innovation ICLI hosted by Universitas Negeri Malang Indonesia in collaboration with the Islamic Development Bank IsDB and Indonesian Consortium for Learning Innovation Research ICLIR as well as Universitas Teknologi MARA Cawangan Perlis Malaysia serving as co organizer this year. The conference aims to gather researchers practitioners students experts consultants teachers and lecturers to share their insights and experiences on research not only in constructing innovations in learning but also the knowledge of learner's capability. The learners who are characterized as creative and competent by having the ability to understand what they have learned and capable of taking initiative and thinking critically. In addition ICLI is organized on the basis of the trend in the 21st century categorized by the increasing complexity of technology and the emergence of a corporate restructuring movement. This book is the proceeding of ICLI 2021 containing a selection of articles presented at this conference as the output of the activity. Various topics around education are covered in this book and some literature studies around specific topics on learning and education are covered as well. This proceeding book will be beneficial to students scholars and practitioners who have a deep concern in education. It is also futuristic with a lot of practical insights for students faculty and practitioners and also a description of the Indonesian educational system in today's era. *Handbook of Research on Science Education, Volume II* Norman G. Lederman, Sandra K. Abell, 2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives. The contributors all experts in their research areas represent the international and gender diversity in the science education research community. The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education. Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community.

Teaching Chemistry in Higher Education Michael Seery, Claire Mc Donnell, 2019-07-01 Teaching Chemistry in Higher Education celebrates the contributions of Professor Tina Overton to the scholarship and practice of teaching and learning in chemistry education. Leading educators in United Kingdom Ireland and Australia three countries where Tina has had enormous impact and influence have contributed chapters on innovative approaches that are well established in their own

practice Each chapter introduces the key education literature underpinning the approach being described Rationales are discussed in the context of attributes and learning outcomes desirable in modern chemistry curricula True to Tina s personal philosophy chapters offer pragmatic and useful guidance on the implementation of innovative teaching approaches drawing from the authors experience of their own practice and evaluations of their implementation Each chapter also offers key guidance points for implementation in readers own settings so as to maximise their adaptability Chapters are supplemented with further reading and supplementary materials on the book s website overtontfestschrist.wordpress.com Chapter topics include innovative approaches in facilitating group work problem solving context and problem based learning embedding transferable skills and laboratory education all themes relating to the scholarly interests of Professor Tina Overton About the Editors Michael Seery is Professor of Chemistry Education at the University of Edinburgh and is Editor of Chemistry Education Research and Practice Claire Mc Donnell is Assistant Head of School of Chemical and Pharmaceutical Sciences at Technological University Dublin Cover Art Christopher Armstrong University of Hull Action Research, Innovation and Change Thomas Stern,Andrew Townsend,Franz Rauch,Angela Schuster,2013-12-17 Action research continues to see a growth in interest both internationally and across disciplines This book demonstrates the diversity in settings and focus for action research and provides a guide to its core aspiration to achieve principled change Written by authors from a range of countries and range of disciplines including education health care palliative care social work and community development this book answers these key questions How can action research be used to achieve principled change How has action research been applied in various disciplines and in different countries What can be learnt about the conduct of action research from these diverse settings By means of detailed case studies of successful projects and discussions that challenge and raise theoretical questions this book explores some of the contemporary cutting edge applications and conceptualisations of action research Action research paves the way for the empowerment of people involved in social action and the examples of successful change processes that are the core of this book will prove inspirational and provide practical advice Written by a range of leading international researchers in the field this book will define the future for action research for years to come

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