

CONTENTS

Editorial

A HISTORICAL UNDERSTANDING OF HOW SCIENCE WORKS

Boris Aberšek 952

Articles

ENHANCING PRE-SERVICE BIOLOGY TEACHERS' TECHNOLOGICAL PEDAGOGICAL CONTENT KNOWLEDGE THROUGH A TPACK-BASED TECHNOLOGY INTEGRATION COURSE

Anthony Bwalya, Marcellin Rutegwa, Dorothy Tukahabwa, Thumah Mapulanga 956

BREAKING GENDER STEREOTYPES: HOW INTERACTING WITH STEM PROFESSIONALS CHANGED FEMALE STUDENTS' PERCEPTIONS

İsmail Dönmez 974

ABSENTEEISM AND STUDENTS' ATTITUDES TOWARD SCIENCE: IMPACT ON EXAM RESULTS AMONG EIGHTH-GRADE STUDENTS IN MALAYSIA AND SINGAPORE

Xianwei Gao, Nai Peng Tey, Siow Li Lai 991

LEARNING STYLES OF A STORY ABOUT SUSTAINABILITY: THEIR EFFECT ON THE LEVEL OF QUESTIONING OF STUDENTS IN PRIMARY EDUCATION

Sare Asli, Zinab Safi, Abeer Shehadeh-Nasser, Avi Hofstein, Muhamad Hugerat 1011

MODERATING ROLE OF SCIENCE SELF-CONCEPT IN ELICITING STATE CURIOSITY WHEN CONFRONTING A VIOLATION OUTCOME

Jihoon Kang 1025

A BIBLIOMETRIC ANALYSIS OF LITERATURE ON ATTITUDES IN STEM EDUCATION IN 2008-2022

Ke Ma, Bei-He Hui 1038

MEASURING SCIENTIFIC REASONING OF FOURTH GRADERS: VALIDATION OF THE SCIENCE-K INVENTORY IN PAPER-BASED AND COMPUTER-BASED TESTING ENVIRONMENTS

Márió Tibor Nagy, Erzsébet Korom 1050

PREDICTING SITUATIONAL INTEREST BY INDIVIDUAL INTEREST AND INSTRUCTIONAL ACTIVITIES IN PHYSICS LESSONS: AN EXPERIENCE SAMPLING APPROACH

Rauno Neito, Elisa Vilhunen, Jari Lavonen, Kaido Reivelt 1063

EFFECTS OF MULTIMEDIA APPLICATION ON STUDENTS' ACADEMIC ACHIEVEMENT IN AGRICULTURAL SCIENCE

Cajethan U. Ugwuoke, Emmanuel A. Babajide, Lilian U. Ekenta, Godwin E. Eze, Clara U. Nwankwo, Florence O. Ifeanyieze, Christiana U. Nwachukwu, Vincent O. Odoh, Edward C. Isiwu 1074

THE CONTEXT CONDITIONS STUDENTS' REPRESENTATIONS OF THE HUMAN NUTRITION MODEL

Teresa Zamalloa, Aritz Uskola, Ainara Achurra 1089

THE RESEARCH STATUS OF FORMATIVE ASSESSMENT IN SCIENCE EDUCATION

Yulian Zhang, Weijun Wang, Yi Xian, Xianfeng Wang, Jiabin Huang 1103

IMPROVING LOWER SECONDARY SCHOOL STUDENTS' KNOWLEDGE INTEGRATION OF BUOYANCY THROUGH ENHANCING THEIR UNDERSTANDING OF THE NATURE OF BUOYANCY

Yi Zou, Xinyu Xue, Lizhen Jin, Xiao Huang, Yanbing Li 1120

Information

INFORMATION FOR CONTRIBUTORS 1137

PROBLEMS OF PSYCHOLOGY IN THE 21ST CENTURY 1138

NATURAL SCIENCE EDUCATION 1139

