

CONTENTS

Editorial

A CONTEXT-BASED APPROACH TO SCIENCE TEACHING

Jack Holbrook 152

Articles

INVESTIGATING GRADE 10 LEARNERS' ACHIEVEMENTS IN PHOTOSYNTHESIS USING CONCEPTUAL CHANGE MODEL

Benedict Tlala, Israel Kibirige, Joseph Osodo 155

A SCALE DEVELOPMENT STUDY FOR IDENTIFYING THE LEVELS OF KNOWLEDGE, PERCEPTION AND AWARENESS OF CHEMICAL HAZARD SYMBOLS

Cemal Tosun 165

EXAMINING THE EXPERIENCES OF CAREER GUIDANCE, VOCATIONAL SELF-CONCEPT, AND SELF-PERCEIVED EMPLOYABILITY AMONG SCIENCE EDUCATION MAJORS IN TAIWAN

Ya-Ling Wu, Yu-Lin Tsai, Cheng-Wu Chen 182

CHANGING PRESCHOOL CHILDREN'S REPRESENTATIONS OF LIGHT: A SCRATCH BASED TEACHING APPROACH

Vassiliki Ntalakoura, Konstantinos Ravanis 191

THE RELATIONSHIP BETWEEN PRE-SERVICE TEACHERS' PHYSICS ANXIETY AND DEMOGRAPHIC VARIABLES

Mehmet Şahin 201

TURKISH TEACHERS' OPINIONS ABOUT SCIENCE-TECHNOLOGY-SOCIETY-ENVIRONMENT ACQUISITIONS IN SCIENCE AND TECHNOLOGY COURSE CURRICULUM

Dilek Erduran Avci, Nazmiye Sadiye Onal, Muhammet Usak 213

CREATIVE THINKING LEVELS OF PRESERVICE SCIENCE TEACHERS IN TERMS OF DIFFERENT VARIABLES

Selda Bakır, Esra Öztekin 231

EFFECTS OF FORMATIVE ASSESSMENT PROBES INTEGRATED IN EXTRA-CURRICULAR HANDS-ON SCIENCE: MIDDLE SCHOOL STUDENTS' UNDERSTANDING

Nermin Bulunuz, Mızrap Bulunuz, Hanife Peker 243

THE DEVELOPMENT OF THE KOREAN TEACHING OBSERVATION PROTOCOL (KTOP) FOR IMPROVING SCIENCE TEACHING AND LEARNING

Jongwon Park, Young-Shin Park, Youngmin Kim, Jongseok Park, Jin-Su Jeong 259

EXAMINATION OF PRE-SERVICE SCIENCE TEACHERS' UNDERSTANDING LEVELS OF KEPLER'S LAWS WITH RANKING TASK QUESTIONS

Derya Çobanoğlu Aktan, Emrah Oğuzhan Dinçer 276

Information

INFORMATION FOR CONTRIBUTORS 289

PROBLEMS OF PSYCHOLOGY IN THE 21ST CENTURY 290

QUALITY ISSUES AND INSIGHTS IN THE 21ST CENTURY 291

