


## CONTENTS Year 2023 Volume 7 Issue 15

### Articles

- Dr. Yusuf ALPDOĞAN , Res.Assist. Semra OMAK , Assoc.Prof.Dr.Müzeyyen ELDENİZ CETİN 
- Research Article**  
*Determination of the Difficulties Encountered by Special Education Teachers Carrying out Homeschooling Services* ..... 436-452  
<http://doi.org/10.31458/iejes.1274032>
- Assoc.Prof.Dr. Ali TÜRKDOĞAN 
- Research Article**  
*An Ontological Study on Proof: If and only If Propositions*..... 453-464  
<https://doi.org/10.31458/iejes.1215877>
- Assist.Prof.Dr. Deniz ÖZEN ÜNAL , Prof.Dr. Ersen YAZICI , Assist.Prof.Dr. Taner ARABACIOĞLU 
- Research Article**  
*Implications from a Modelling based Flipped Mathematics Course*..... 465-483  
<https://doi.org/10.31458/iejes.1286927>
- Dr. Tuğba ŞİMSEK 
- Research Article**  
*Examination of Foreign Students' Anxiety in Learning Turkish in terms of Various Variables Services* ..... 484-501  
<https://doi.org/10.31458/iejes.1291763>
- Fidaye CİNCİL , Assist.Prof.Dr. Kerem COLAK 
- Research Article**  
*Seventh-Grade Students' Perspective on Non-Governmental Organization*..... 502-514  
<https://doi.org/10.31458/iejes.1294574>
- Assoc.Prof.Dr. Mehmet PALANCI 
- Research Article**  
*Change in the Learning Motivations and Attention Orientations of Students in the Pre- and Post-COVID-19 Periods: A Longitudinal Study*..... 515-529  
<https://doi.org/10.31458/iejes.1296769>
- Assoc.Prof.Dr. Selin ÇENBERCİ 
- Research Article**  
*The Points to be Considered While Developing the Activities for the Mathematics Course*..... 530-547  
<https://doi.org/10.31458/iejes.1291763>
- Assoc.Prof.Dr. Betül KÜÇÜK DEMİR , Assoc.Prof.Dr. Demet DENİZ 
- Research Article**  
*Examining the Learning Styles of Teacher Candidates in Terms of Different Variables*..... 548-554  
<https://doi.org/10.31458/iejes.1311667>



## CONTENTS Year 2023 Volume 7 Issue 15

### Articles

Assoc. Prof.Dr. Bilgen KIRAL 

#### **Research Article**

*Comparison of Principals' Discourses, Behaviors, and Practices towards the Students in terms of Values Education: Turkey and The US Sample* ..... 555-567  
<https://doi.org/10.31458/iejes.1311914>

Lecturer Ahmet BOLAT , Prof.Dr. Sevilay KARAMUSTAFAOĞLU 

#### **Research Article**

*The Effect of Question Preparation Training Program that Measures Higher Order Thinking Skills on the Self-Efficiency of Science Teachers* ..... 568-583  
<https://doi.org/10.31458/iejes.1314305>

Assoc. Prof.Dr. Çetin TAN , Yusuf CEYLAN 

#### **Research Article**

*Examination of Fair Play Approaches of High School Students who Participate in School Sports and not ...* ..... 584-593  
<https://doi.org/10.31458/iejes.1283892>

Assoc. Prof.Dr. Süleyman KASAP , Dr. Mahmut AYAZ , Dr. Mehmet Sena ATAS 

#### **Research Article**

*Development of Turkish reading anxiety scale* ..... 594-607  
<https://doi.org/10.31458/iejes.1293258>

Assoc. Prof.Dr. Özcan ÖZYURT , Assoc. Prof.Dr. Alper ASLAN 

#### **Research Article**

*A Broad View of the Problem-Based Learning Field Based on Machine Learning: A Large-Scale Study Based on Topic Modeling* ..... 608-626  
<https://doi.org/10.31458/iejes.1320491>

Assoc. Prof.Dr. Oğuzhan ALTUNGÜL , Assist. Prof.Dr. Didem YAVUZ SÖYLER , Mesut BULUT 

#### **Research Article**

*Examination of Psychological Strength and Target Commitment Level of Students Faculty of Sports Sciences Province* ..... 627-636  
<https://doi.org/10.31458/iejes.1322672>

Assist. Prof.Dr. Fatih Harun TURHAN 

#### **Research Article**

*Perceptions of the Effect of Digital Literacy Levels of who Take Sports Education Students on E-Learning* ..... 637-647  
<https://doi.org/10.31458/iejes.1334164>

Assist. Prof.Dr. Derya KAYIRAN 

#### **Research Article**

*Peer Bullying Experiences and Management Strategies of Preschool Teachers* ..... 648-656  
<https://doi.org/10.31458/iejes.1336321>


## CONTENTS Year 2023 Volume 7 Issue 15

### Articles

- Dr. Ensar YILDIZ , Aysegül ÖĞÜTCEN , Prof.Dr. Berrin AKMAN 
- Research Article**  
*The Mathematics Process in Home Environments of Preschool Children in the Covid-19 Pandemic: Views of Parents* ..... 657-672  
<https://doi.org/10.31458/iejes.1336919>
- Mayarni MAYARNI , Prof.Dr.Fasli JALAL , Prof.Dr.M.Syarif SUMANTRI , Prof.Dr. Wardani RAHAYU 
- Research Article**  
*Video-based IBL and Conventional Approaches to Critical Thinking Skills in terms of Gender*..... 673-681  
<https://doi.org/10.31458/iejes.1339739>
- Nimet BARÇIN , Assoc. Prof.Dr. Arzu AYDOĞAN YENMEZ 
- Research Article**  
*GeoGebra Software on the Mathematical Language Developments and Self-Efficacy Perceptions of Students*..... 682-704  
<https://doi.org/10.31458/iejes.1340349>
- Assoc. Prof.Dr. Hülya ASLAN EFE 
- Research Article**  
*An Evaluation of Online Science Classes Based on Students' Science Learning Experiences* ..... 705-722  
<https://doi.org/10.31458/iejes.1341206>
- Assoc. Prof.Dr. Oğuzhan ALTUNGÜL , Assist. Prof.Dr. Didem YAVUZ SÖYLER 
- Research Article**  
*Distance Education Competencies of Physical Education Teachers: Elazığ Province* ..... 723-729  
<https://doi.org/10.31458/iejes.1322667>
- Assoc. Prof.Dr. Süreyya Yonca SEZER , Kubilay SENBAKAR 
- Research Article**  
*Assessment of Mobile Phone Usage and Loneliness Levels of Faculty of Sports Sciences Students* ..... 730-737  
<https://doi.org/10.31458/iejes.1344541>
- Assist. Prof.Dr. Ebru KORKMAZ 
- Research Article**  
*The Effect of Actionbound on Academic Success and Attitude on 6th Grade Field Measurement* ..... 738-751  
<https://doi.org/10.31458/iejes.1291763>
- Assist. Prof.Dr. Duygu ARABACI , Assist. Prof.Dr. Oben KANBOLAT 
- Research Article**  
*Pre-Service Elementary Mathematics Teachers' Evaluations of Meetings with Expert and Peer Participation Based on Van Hiele Geometric Thinking Levels* ..... 752-768  
<https://doi.org/10.31458/iejes.1345567>

## CONTENTS Year 2023 Volume 7 Issue 15

### Articles

- Assoc. Prof.Dr. Gülfem Dilek YURTTAS KURLU**  **Dr. Mehtap TAŞTEPE** 
- Research Article**  
*Cognitive and Metacognitive Strategies in Problem-Posing Tasks in the Context of Science.....* 769-787  
<https://doi.org/10.31458/iejes.1345989>
- Assist. Prof.Dr. Abdullah Yasin GÜNDÜZ** 
- Research Article**  
*The Importance of Investigating Students' Lifelong Learning Levels and Perceptions of 21st-Century Skills.* 788-796  
<https://doi.org/10.31458/iejes.1346220>
- Sevde KAYAN** , **Assist. Prof.Dr. Şevket AYDIN** 
- Research Article**  
*The Effect of Teaching Algebraic Expressions with Educational Games on Sixth-Grade Students' Attitudes towards Mathematics.....* 797-816  
<https://doi.org/10.31458/iejes.1347251>
- Mustafa NİZAM** , **Assoc. Prof.Dr. Fulya ÖNER ARMAĞAN** 
- Research Article**  
*Guidance Materials Enhanced with Digital Content to Understand the Characteristics of Birds and Student Opinions .....* 817-830  
<https://doi.org/10.31458/iejes.1351360>
- Gülsah Zeman KEPCEOĞLU** , **Prof.Dr. Serhat İREZ** 
- Research Article**  
*An Analysis of the Place of the History of Science in Chemistry Textbooks .....* 831-843  
<https://doi.org/10.31458/iejes.1353829>
- Assist. Prof.Dr. Osman BAĞDAT** 
- Research Article**  
*How do Mentor Teachers Implement Mathematical Tasks?: The Perspective of Preservice Mathematics Teachers .....* 844-858  
<https://doi.org/10.31458/iejes.1359037>
- Tuba YENİL** , **Assoc. Prof.Dr. Burçin GÖKKURT ÖZDEMİR** 
- Research Article**  
*Can Students' Misconceptions Regarding Decimal Notation be Eliminated with the 5E Model Enriched with Digital Concept Cartoons .....* 859-883  
<https://doi.org/10.31458/iejes.1362080>
- Dr. Gamze YAYLA ESKİCİ** 
- Review Article**  
*Sustainability and its Reflection on Education .....* 884-894  
<https://doi.org/10.31458/iejes.1341475>