



*'an ordinary evening in Bukhara' Bukhara, Uzbekistan (Fahri Tarhan, 2019)*

# Turkish Journal of Education

# TURJE

2012

[www.turje.org](http://www.turje.org)

January, 2020

Volume 9, Issue 1

ISSN: 2147-2858

In this issue our readers will find;

Evaluation of the 2017 updated secondary school English curriculum of Turkey  
by means of theory-practice link  
by *Erdem Aksoy*

Prospective mathematics teachers' critical thinking processes about scientific research:  
Newspaper article example  
by *Mehtap Kuş, Erdiñ Çakırođlu*

Children's science learning outside school: Parental support  
by *Rahime Çobanođlu, Gülfem Dilek Yurttas-Kumlu*

Developing biomimicry STEM activity by querying the relationship between structure  
and function in organisms  
by *Ayşe Savran Gencer, Hilmi Dođan, Kadir Bilen*



Journal Name: **Turkish Journal of Education** Türk Eğitim Dergisi

Acronym: **TURJE**

Turkish and English Quarterly Publishing Scientific Peer Reviewed Online Journal  
Türkçe ve İngilizce olarak üç ayda bir yayımlanan Bilimsel Hakemli Elektronik Dergi

eISSN: 2147-2858

Year: 2020

Volume: 9 Issue: 1

URL: www.turje.org, Email: turjeorg@gmail.com, Telephone: +90344-300-1310

Address: Azerbaycan Bulvarı 64/22 46040 Onikişubat Kahramanmaraş TÜRKİYE

Turkish Journal of Education (TURJE) seeks to bridge and integrate the intellectual, methodological, and substantive diversity of educational scholarship, and to encourage a vigorous dialogue between educational scholars and practitioners.

TURJE publishes researches, theoretical statements, philosophical arguments, and critical syntheses.

First published in 2012

### Table of Contents İçindekiler

Research Articles	
Evaluation of the 2017 updated secondary school English curriculum of Turkey by means of theory-practice link Erdem Aksoy	1-21
Prospective mathematics teachers' critical thinking processes about scientific research: Newspaper article example Mehtap Kuş, Erdinç Çakıroğlu	22-45
Children's science learning outside school: Parental support Rahime Çobanoğlu, Gülfem Dilek Yurttaş-Kumlu	46-63
Developing biomimicry STEM activity by querying the relationship between structure and function in organisms Ayşe Savran Gencer, Hilmi Doğan, Kadir Bilen	64-105

### Editorial Board Editörler Kurulu

Editors in Chief	
Prof.Dr. Selahiddin Öğülmüş (Ankara University, Turkey)	
Prof.Dr. Mehmet Tekerek (Kahramanmaraş Sütçüimam University, Turkey)	

Field Editors of Volume (9) Issue (1)	
Prof.Dr. Ökkeş Alpaslan Gençay (Kahramanmaraş Sütçüimam University, Turkey)	
Assoc.Prof.Dr. M.Sencer Çorlu (Bahçeşehir University, Turkey)	
Assoc.Prof.Dr. Sedat Şen (Harran University, Turkey)	
Assoc.Prof.Dr. Ümran Betül Cebesoy (Uşak University, Turkey)	
Dr. Betül Tekerek (Kahramanmaraş Sütçüimam University, Turkey)	
Dr. Reyhan Ağçam (Kahramanmaraş Sütçüimam University, Turkey)	

## Editorial Board Editörler Kurulu

### Field Editors

**Computer Education and Instructional Technology,**  
Prof.Dr. Hakan Tüzün (Hacettepe University, Turkey)

**Curriculum Development in Education**  
Dr. Mustafa Cem Babadoğan (Ankara University, Turkey)

**Educational Informatics**  
Dr. Adem Tekerek (Gazi University, Turkey)

**Education Management**  
Assoc.Prof.Dr. Ramazan Yirci (Kahramanmaraş Sütçüimam University, Turkey)  
Dr. Olcay Yavuz (Southern Connecticut State University, USA)

**Educational Psychology**  
Prof.Dr. Selahiddin Öğülmüş (Ankara University, Turkey)

**Foreign Languages Education**  
Dr. Amal BouZeineddine (American University of Beirut, Lebanon)  
Dr. Reyhan Ağçam (Kahramanmaraş Sütçüimam University, Turkey)

**Mathematics Education**  
Prof.Dr. Safure Bulut (Middle East Technical University, Turkey)  
Dr. Betül Tekerek (Kahramanmaraş Sütçüimam University, Turkey)

**Measurement and Evaluation in Education**  
Assoc.Prof.Dr. Erkan Hasan Atalmış (Kahramanmaraş Sütçüimam University, Turkey)  
Assoc.Prof.Dr. Sedat Şen (Harran University, Turkey)

**Music Education**  
Assoc.Prof.Dr. Salim Sever (Ankara University, Turkey)

**Physical Education and Sport**  
Prof.Dr. Ökkeş Alpaslan Gençay (Kahramanmaraş Sütçüimam University, Turkey)

**Psychological Counseling and Guidance**  
Assoc.Prof.Dr. Lea Ferrari (University of Padova, Italy)  
Assoc.Prof.Dr. Ramin Aliyev (Hasan Kalyoncu University, Turkey)

**Science Education**  
Prof.Dr. Bayram Coştu (Yıldız Technical University, Turkey)  
Assoc.Prof.Dr. Kadir Bilen (Alanya Alaaddin Keykubat University, Turkey)  
Assoc.Prof.Dr. Ümran Betül Cebesoy (Uşak University, Turkey)

**Social Sciences Education**  
Prof.Dr. Ahmet Nalçacı (Kahramanmaraş Sütçüimam University, Turkey)  
Assoc.Prof.Dr. Mustafa Sever (Ankara University, Turkey)

**Special Education**  
Dr. Şule Gücyeter (Uşak University, Turkey)

**STEM Education**  
Assoc.Prof.Dr. M.Sencer Çorlu (Bahçeşehir University, Turkey)

**Technology & Engineering Education**  
Prof.Dr. Abdullah Togay (Gazi University, Turkey)  
Prof. Dr. Mehmet Tekerek (Kahramanmaraş Sütçüimam University, Turkey)

**Turkish Language Education**  
Prof.Dr. Kasım Yıldırım (Muğla Sıtkı Koçman University, Turkey)

### International Advisory Board

Prof.Dr. Edward Reeve, Utah State University, USA  
Prof.Dr. Kurt Henry Becker, Utah State University, USA  
Prof.Dr. Safure Bulut, Middle East Technical University, Turkey  
Prof.Dr. Süleyman Sadi Seferoğlu, Hacettepe University, Turkey  
Assoc.Prof.Dr. Sun Young Han, Sungkyunkwan University, South Korea

### Language Editors

**English Language**  
Dr. Gözde Balıkçı (Kahramanmaraş Sütçüimam University, Turkey)  
Dr. Stefan Rathert (Kahramanmaraş Sütçüimam University, Turkey)  
Dr. Yunus Emre Akbana (Kahramanmaraş Sütçüimam University, Turkey)  
Mohammed Mubarique (Çankaya University, Arı College, Turkey)  
Şerife Durna (Kahramanmaraş Sütçüimam University, Turkey)

### Pre-review Editors

Dr. Ayşenur Yılmaz (Kahramanmaraş Sütçüimam University, Turkey)  
Dr. Özge Kelleci (Hasan Kalyoncu University, Turkey)  
Recep Başarıcı (Hacettepe University, Turkey)  
Ferhat Karakaya (Yozgat Bozok University, Turkey)

## Reviewers of the Issue Sayı Hakemleri

Reviewers of the Volume (9) Issue (1)

Dr. Defne Yabaş, (Bahçeşehir University)  
Dr. Güliz Karaarslan Semiz, (Ağrı İbrahim Çeçen University)  
Dr. Hayriye Sinem Boyacı, (Bahçeşehir University)  
Dr. İbrahim Çetin, (Necmettin Erbakan University)  
Dr. İbrahim Yıldırım, (Gaziantep University)  
Dr. Özlem Oktay, (Atatürk University)  
Dr. Seher Avcu, (Aksaray University)  
Dr. Stefan Rathert, (Kahramanmaraş Sütçüimam University)  
Dr. Tuncer Akbay, (Mehmet Akif Ersoy University)  
Dr. Veysel Akçakın, (Uşak University)  
Dr. Yunus Emre Akbana, (Kahramanmaraş Sütçüimam University)

To join our Editorial or Reviewer Team  
Please send your CV to: [turjeorg@gmail.com](mailto:turjeorg@gmail.com)

## Indexing Dizinler

### EBSCO Education Source (Since January, 2013)

Education Source is an International Field Index on Educational Sciences, combines high-quality databases from EBSCO and H.W. Wilson and includes hundreds of unique full-text journals not previously available in any databases.

### Emerging Sources Citation Index (ESCI), Web of Science™ Core Collection (Since January, 2015)

The Emerging Sources Citation Index (ESCI) was launched in late 2015 as a new database within Clarivate Analytics' (formerly Thomson Reuters') Web of Science. Journals indexed in the ESCI will not receive Impact Factors; however, the citations from the ESCI will now be included in the citation counts for the Journal Citation Reports, therefore contributing to the Impact Factors of other journals. Articles in ESCI indexed journals will be included in an author's *H-Index* calculation, and also any analysis conducted on Web of Science data or related products such as InCites.

### ERIH PLUS European Reference Index for the Humanities (ERIH) to NSD (Since January, 2017)

The European Science Foundation (ESF) signed in January 2014 a memorandum of understanding with the NSD - Norwegian Centre for Research Data to transfer the maintenance and operations of the European Reference Index for the Humanities (ERIH) to NSD. The ERIH database operated by NSD is called ERIH PLUS.

Turkish Journal of Education is a **DOAJ** Indexing Open Access Journal



Turkish Journal of Education is licensed to the public under a [Creative Commons Attribution 4.0](https://creativecommons.org/licenses/by-nc-nd/4.0/) license.