

## WEB-BASED RESEARCH PROJECT DESIGN: COMPARING UNIT FRACTIONS

Doç. Dr. Aytaç Kurtuluş  
Eskişehir Osmangazi Üniversitesi  
[agunaydi@ogu.edu.tr](mailto:agunaydi@ogu.edu.tr)

İlknur Artan  
Eskişehir Osmangazi Üniversitesi  
[ilknurartan43@gmail.com](mailto:ilknurartan43@gmail.com)

Gökhan Gümüőçeyrek  
Eskişehir Osmangazi Üniversitesi  
[gokhangumusceyrek1430@gmail.com](mailto:gokhangumusceyrek1430@gmail.com)

### Abstract

Web Based Research Projects (WDAP) is a web-based teaching model in which information and data are acquired from internet sources and contributes to the development of high-order thinking skills. In this study, WebQuest was used as a scenario of predefined WDAP. Webquests are structured learning environment that provides real tasks to motivate a student to use the internet in class and uses internet resources. Designed by the researchers, Webquest was also asked to use the Google Earth program to make a cable car project to facilitate the transportation of Eskişehir Osmangazi University and Anadolu University, and to identify possible stations with unit fractions for this project. Webquest could also been associated with STEM training, which is defined as an educational approach involving teaching science, technology, engineering and mathematics in an integrated way in order to enable the theoretical knowledge to be transformed into product.

**Keywords:** Webquest, unit fractions, STEM.