<u>Vol: 3 No: 1 Year: 2022</u>

journal homepage: https://www.ojomste.com/index.php/1

The Effect of Realistic Mathematics Education Approach on Academic Achievements, Retention and Attitude of 9th Grade Students

Hasan Topçu^a, Tevfik İşleyen^b

^aMinistry of Education, Sevim Tokatlı Girl AİHS, Kastamonu/Turkey, hasantpc37@gmail.com, https://orcid.org/0000-0001-6921-0186

^bAtatürk University, Kazım Karabekir Education Faculty, Erzurum/Turkey, tevfikisleyen@gmail.com, https://orcid.org/0000-0001-9824-8044

Keywords:	Abstract
realistic	The aim of this study is to examine the effect of the Realistic
mathematics	Mathematics Education (RME) approach to the success, the retention
education,	and the attitude of 9th grade students of secondary education on
mathematics teaching,	"Equation and Inequalities" on mathematics lesson. Research data was
	obtained with these 73 students. Semi-experimental design was used in
	the research. Equation and Inequalities Achievement Test (EIAT) 1, 2
equation and	and 3, Attitude Scale towards Mathematics Course (ASM) were used as
inequality teaching,	data collection tools. EIAT1 and ASM pre-attitude tests was analyzed
interest-based learning,	One-Way ANOVA; EIAT2, EIAT3 and ASM post-attitude test data was
	analyzed ANCOVA. The EIAT 2 scores of the experimental groups were
academic success,	found to be statistically significantly higher in favor of the experimental
	group compared to the EIAT2 scores of the control groups. Also, when
retention,	the EIAT3 scores were compared, the difference was found to be
attitude.	marginally significant in favor of the experimental group. However, no
	statistically significant difference was found in the comparison between
Paper Type:	the two groups in the findings of the ASM. Realistic Mathematics
Research	Education is more effective in increasing students' academic
	achievement and retention compared to the education provided by the
	current curriculum.

Topçu, H., & İşleyen, T. (2022). Gerçekçi Matematik Eğitimi Yaklaşımının 9. Sınıf Öğrencilerinin Akademik Başarıları, Kalıcılık ve Tutumlarına Etkisi. *Online Journal of Mathematics, Science and Technology Education (OJOMSTE),* 3(1),13-.31