Original Research

Doi: 10.19126/suje.592408

Received: 16.07.2019 Published: 15.04.2020 Accepted: 30.12.2019 April 2020• 10(1) • 120-135

A Validity and Reliability Study of Story Writing Anxiety Scale*

Aysun EROĞLU**

Abstract. Stories have become one of the ways to provide information more effectively in so-called age of technology, the 21st century. Moreover, it is seen that advertising industry storifies what they desire to commercialize. Teaching students in a storified way enables persistence of learning. The effect of storytelling and writing, which already exists in many aspects of life, on secondary students' anxiety has been a key concern. It has been planned to search this current topic which is not encountered in the literature and to develop a scale. It is thought that secondary school students need an instrument evaluating their story writing anxiety. In this sense, the aim of this study is to develop a scale that will evaluate secondary 7th graders' story writing anxiety. 439 students (212 female and 227 male students) participated in the study. As a result of exploratory and confirmatory factor analyses, a valid and reliable evaluation instrument for secondary school students' story writing anxiety was developed. As a result of the research, 5 tier scale with 26 items was formed to evaluate story writing anxiety. Cronbach Alpha value was found to be .853 and total variance explained was 57.827.

Keywords: Story, story writing anxiety, scale, secondary school students.

^{*} Ethics committee permission for this study was obtained from the Ethics Committee of the Rectorate of Sakarya University with the number of E.273 dated 07/01/2019.

^{**} Orcid ID: <u>https://orcid.org/0000-0003-1047-8748</u>, Ress. Assist., Kafkas University, Faculty of Education, Social Studies and Turkish Education – Turkish Language Education Department, phD Student at Sakarya University Turkish Language Education, <u>24aysun@gmail.com</u>

Eroğlu, A. (2020). A Validity and Reliability Study of Story Writing Anxiety Scale. Sakarya University Journal of Education, 10(1), 120-135. doi: https://doi.org/10.19126/suje.592408

1. INTRODUCTION

Stories play a great role in influencing and persuading human-beings. It is no different in education world. Stories are one of the best ways to teach children. Children are influenced by well-structured stories and persuaded to learn the aimed topic. Stories should not be formed with events listed randomly. Since stories need a certain order and discipline, it is primarily required to analyse each part of this story and then acquire a meaningful, consistent and reasonable whole from these parts (Temizkan, 2014). Thus, stories help improve children's imagination and help them comprehend reason-result relationship and produce more practical solutions to problems. Storifying a topic improves students' creativity, provides persistent learning and helps summarize the lesson (Taşkaya, 2017, Ed. A. Akkaya). Stories told by family elders contribute to children's listening skills while asking questions about the stories told contributes to speaking skills and interfamily communication positively. Also, it is likely that this can become a tradition when children tell these stories of their own memories to their own kids or other kids when they grow up. Today, this happens mostly in digital platforms and it is recognized that digital story telling has come into prominence. TED speakers such as Brene Brown and Barıs Özcan introduce themselves as story-tellers (WEB1; WEB2). Frequency of search for story-teller concept in recent years is illustrated in Figure 1 below.

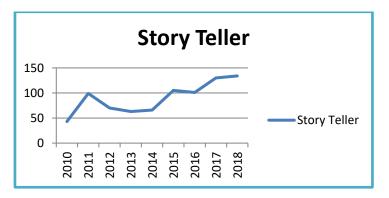


Figure 1. Frequency of search for story teller concept (WEB3)

Figure 1 shows frequency of search for story teller concept between 2010 and 2018 in Turkey. It is seen that search ratio which was below 50 in 2010 went up to 100 in 2011 while it dropped the following year; however, it increased regularly after 2014. Activation in digital platforms have gone up thanks to the presence of television, computer and smart phones in nearly every house today, so-called age of technology. Concept of story-telling stands out as access to the videos in which TED talks and many similar success stories are told have increased in video websites such as Youtube. It is thought that the curiosity about this concept may have enhanced since these people telling their success stories introduce themselves as storyteller.

Traditional stories underlie commercial stories on TVs and digital stories. Digital story is combination of art of traditional story telling and multimedia elements such as pictures, audios and videos (Robin 2006; Alexandar, 2011; Frazel 2010). Traditional story telling is narrating an incident verbally or in writing, which is an article telling real or fictious incidents (TDK, 2011; Doğan, 2005; Akbayır, 2007; Babacan, 2008). Since digital story telling based on traditional story telling impact children's development, motivation and academic success (Kurudayıoğlu and Bal, 2014; Baki 2015; Göçen, 2014; Cıralı, 2014; Demirer, 2013; Kahraman, 2013; Yüksel, 2011), students' anxiety of story writing is a matter of curiosity. Anxiety is a feeling of worry that is manifested due to a worrying thought or generally an intrusive thought, the reason of which is unknown (TDK, 2011). According to Aydın and Zengin (2008), it is an emotional state in which someone feels herself/himself weak in case of a foreseen danger. The reason why anxiety is examined in this study is the relationship between anxiety and learning. If anxiety levels are or high for a person, learning is not efficient. However, healthy and efficient learning occurs in case of existence of mild anxiety (Cüceloğlu, 2003). This study can help determine story writing anxiety levels of students.

In review of the literature, it is found that there are such studies as writing anxiety scale for secondary school students (Karakuş Tayşi and Taşkın, 2018), writing anxiety scale for those who learn Turkish as a foreign language (Şen and Boylu, 2017; Aytan and Tunçel, 2015; İşcan, 2015), attitude scale (Can and Topçuoğlu Ünal, 2017; Akaydın and Kurnaz, 2015), the adaptation to Turkish of the writing attitude scale (Göçer, 2014), writing disposition scale (İşeri and Ünal, 2010), writing self-efficacy scale (Güneş, Kuşdemir and Bulut, 2017; Şengül, 2013), Turkish adaptation of writing self-efficacy scale (Yılmaz Soylu and Akkoyunlu, 2019). No story writing anxiety scale for secondary school students was encountered in the literature.

Digital story telling is based on traditional storytelling, information is presented by being storified in order to make information more attractive because it is easier and faster to access to information thanks to web technologies in the 21st century. Given that, the reason why story writing anxiety is examined in this study is that the effect of all these opportunities on children's story writing anxiety is a matter of curiosity.

Furthermore, growing importance of story today has caused storytelling to be considered as a job of the future (WEB4). Also, the fact that there are three main titles such as expository, narrative, poetic features in the New Turkish Curriculum (2019) shows that story is so significant that it also influences the education world. The reason why secondary 7th graders were focused in this study is the fact that the gains which are "Students are helped to determine a story plot and its elements based on their own daily observation and experience" and "Students are helped to determine time, place, characters and events in the story, and draft what they will tell in the exposition, climax and resolution parts of the story" mentioned under the gain "The student can write a narrative text" are discussed for the students in 5th and 6th grades even though story exists in all grades as a genre and also anxiety for High School Entrance Exam (LGS) is less in this grade. Moreover, researchers and teachers can evaluate why their students get anxious in both traditional story writing and digital story writing thanks to this study. Thus, teachers can keep anxiety of their students at a certain level, and contribute to development of their story writing skills.

2. METHOD

It is aimed in this study to develop a scale that will evaluate secondary 7th graders' story writing anxiety. To this end, "Story Writing Anxiety Scale" was developed. In this study, the ethics of publication related to scientific article writing was followed and necessary permissions were obtained. Ethics committee permission for this study was obtained from the Ethics Committee of the Rectorate of Sakarya University with the number of E.273 dated 07/01/2019.

Study Group

439 students who are in 7th grade in two state secondary schools in Central District of Kars Province participated in the research for Story Writing Anxiety Scale. 212 participants were female while 227 were male. 300 and above would be appropriate for the sample size (Comrey and Lee, 2009). If the study group is large enough, it is said that the same study group can be randomly divided into two for EFA and CFA (Brown, 2006; DeVellis, 2017). Accordingly, the study group was divided into two for EFA and CFA. Data from 220 students were used for EFA and data from 219 students were used for CFA.

Story Writing Anxiety Scale

Literature review was performed in scope of this study and it was seen that there is writing anxiety scale but no study for story writing anxiety scale exists. Thus, studies on writing anxiety and story writing in the literature were examined. 32 students in the secondary 7th grade in these two schools in Central District of Kars Province were asked the following question: "Does story writing make you anxious? If yes, can you write the reason?". They were asked to write how they feel and think about this in a paragraph. An item pool was formed by combining the literature review and data obtained from students' answers. It was noted that content of each item reflects the relevant construct during the formation of item pool and dual-purpose item constructs were avoided (DeVellis, 2017). A 37-item-pool was formed. Scale was formed in 5-Likert-type and answers were designed as "'Totally Disagree: 1, 'Disagree: 2', 'Neither Agree nor Disagree: 3', 'Agree: 4' and 'Totally Agree: 5".

Procedures

Evaluation of item conformity was obtained by presenting the introduction of the construct studied in general to the experts (DeVellis, 2017). Accordingly, the item pool was reviewed by field experts. The scale was submitted to two field experts of Turkish Education and one Assessment and Evaluation field expert. The experts made the evaluations for each item as appropriate, partly appropriate and inappropriate. In

addition, the experts were requested to write missing parts or their suggestions if any. In the light of the experts' views, 3 items were omitted from the item pool and 10 items were amended. A pilot study with final 34 items was performed after the relevant amendments and elimination.

After the expert view was obtained, studies for construct validity and reliability were initiated. The construct was examined through exploratory factor analysis (EFA) for construct validity and then confirmatory factor analysis (CFA) was implemented in order to confirm this construct. The scale was distributed to 445 students in total; however, 6 students were excluded from the study because they marked just one agreement option. Data from 439 students in total were used. SPSS 20.0 package was used for EFA while SPSS AMOS 23.0 was used for CFA. The study group was divided into two because there was sufficient sample size for EFA and CFA. Data from 220 students were used for EFA and data from 219 students were used for CFA.

3. FINDINGS

Findings regarding exploratory factor analysis (EFA) and confirmatory factor analysis (CFA) are explained below.

Findings on EFA

Exploratory factor analysis was employed for construct validity of Story Writing Anxiety Scale. Exploratory factor analysis discloses whether factors discovered as a result of analysis are similar to constructs of the concept (unobservable implicit variables) that help behaviour to be understood in addition to reducing variables and naming factors (Çokluk, Şekercioğlu & Büyüköztürk, 2012). Therefore, it is examined if indicators collected in sub-factors reflect indicator of conceptual construct thanks to exploratory factor analysis.

In factor analysis, a sample as large as possible was used for adequate sampling size since how much common variance there is shall not be known till data is analysed (Henson & Roberts, 2006; Erkuş, 2016). As many voluntary participants as possible were aimed to be reached in this study. Also, another way to test conformity of data construct for factor analysis is to examine Kaiser-Mayer-Olkin test results. For that reason, KMO test values were considered in this study and the results are illustrated in Table 1.

Table 1.

Kaiser-Meyer-Olkin Measure of Sampling Adequacy		.869
Bartlett Globality Test	X2	4662.491
	sd	325
	р	0.000

KMO and Bartlett Test Results of Story Writing Anxiety Scale

KMO returns values between 0 and 1, and KMO values greater than 0.5 are acceptable (Field, 2009). KMO values between 0.5 and 0.7 are mediocre, values between 0.7 and 0.8 are good, values between 0.8 and 0.9 are very good and values greater than 0.9 are great (Field, 2009; Tavşancıl, 2018; Şencan 2005). According to Table 1, the result of KMO test of this scale is .869. It is likely to say that KMO value of this scale is good with regards to the values mentioned above.

Bartlett test results of this scale are also displayed in Table 1. Significance value is evaluated in this test as in other χ 2 tests and if significance value is below 0.05, it is concluded that it is different than R correlation or unit matrix in covariance matrix (Çokluk, Şekercioğlu & Büyüköztürk, 2012). Based on this, it is possible to say that the value found in this study (χ 2=4662.491; p<.01) is meaningful. It is seen that these values and data obtained from pilot study are appropriate for factor analysis.

Findings on Scree Plot

Scree plot is an auxiliary graph suggested by Cattell in order to determine the number of factors (Çokluk, Şekercioğlu & Büyüköztürk, 2012). In accordance with scree plot table, explicit factors can be seen and it is decided if it is necessary to decrease factor or not. Scree plot of this scale is presented in Figure 1.

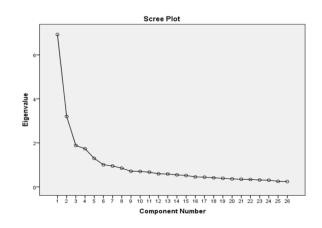


Figure 1. Scree Plot of Story Writing Anxiety Scale

Scree plot of Story Writing Anxiety Scale can be seen in Figure 1. Slopes which are accelerated and rapid decreases are observed in the graph illustrate number of factors. It is recognized the slope sustained after the fifth factor. Therefore, this graph helped to determine the number of factors and number of factors was decreased to five.

Findings on Total Variance Percentage and Number of Factors

Table 2 shows how much percentage of total variance this scale explains and how many factors this construct is composed of through exploratory factor analysis.

Table 2.

Total Variance Percentage and Number of Factors Obtained as a Result of Factor Analysis of Story Writing Anxiety Scale

Number of Factors	Eigen Value	Percentage	Cumulative Percentage
Factor 1	6.925	26.636	26.636
Factor 2	3.201	12.311	38.946
Factor 3	1.881	7.235	46.181
Factor 4	1.734	6.669	52.849
Factor 5	1.294	4.978	57.827

It is seen that this scale has a five-factor construct explaining 57.827 of total variance as a result of exploratory factor analysis using varimax rotation (Yaşlıoğlu, 2017), which is a vertical rotation technique, in obtaining best possible number of independent factors, and of principal component analysis in Table 2 . Eigen values of the factors and variance rate they explain is 6.925 and 26.636% for factor one, 3.201 and 12.311% for factor two, 1.881 and 7.235% for factor three, 1.734 and 6.669% for factor four, 1.294 and 4.978% for factor five, respectively. In factor analysis, factors whose eigen values are one and over one are accepted, and variance the factor explains increase as eigen values go up (Çokluk, Şekercioğlu & Büyüköztürk, 2012). Accordingly, the fact that each factor in this scale has eigen value over one proves that it has acceptable values. For Scherer, Wiebe, Luther and Adams (1988), in multi-factor patterns, it is adequate if the variance explained in social sciences is between 40% and 60% (cited in Tavşancıl, 2018; cited in. Çokluk, Şekercioğlu & Büyüköztürk, 2012). It is clear that total variance value of this scale, which is 57.827, is at an acceptable level.

Factor Loads of Story Writing Anxiety Scale

For Çokluk, Şekercioğlu & Büyüköztürk (2012) if a factor load value of an item is low, this item does not show a powerful relationship with that factor; therefore, factor load values

of Story Writing Anxiety Scale were examined. Factor load values of Story Writing Anxiety Scale are displayed in Table 3.

Items	Prejudice	Sharing	Spelling Error	Humiliation	Avoidance of Knowledge
M23	.771				
M22	.727				
M18	.704				
M19	.690				
M24	.667				
M20	.641				
M17	.627				
M11		.817			
M10		.791			
M12		.751			
M9		.728			
M8		.719			
M27			.798		
M26			.774		
M25			.715		
M28			.660		
M29			.534		
M4				.718	
M7				.707	
M5				.672	
M3				.658	
M6				.638	
M32					.822

Table 3.

M33	.804
M31	.767
M34	.566

In accordance with Table 3, it is seen that load values of items in the first factor are between .771 and .627, load values of items in the second factor are between .817 and .719, load values of items in the third factor are between .798 and .534, load values of items in the fourth factor are between .718 and .638, load values of items in the fifth factor are between .822 and .566. It is found that factor load values are between .534 and .822, and factor load values obtained by cut off value 0.5 are better (Tabachnick and Fidell, 2013; Büyüköztürk, 2014).In accordance with Table 3, items in the first factor (M23, M22, M18, M19, M24, M20 and M17) are named as "prejudice", items in the second factor (M11, M10, M12, M9 and M8) are named as "sharing", items in the fourth factor (M27, M26, M25, M28 and M29) are named as "spelling error", items in the fourth factor (M4, M7, M5, M3 and M6) are named as "humiliation", items in the fifth factor (M32, M33, M31 and M34) are named as "avoidance of knowledge". Two Turkish Education field experts were asked for their opinion during naming the factors. When extracting cyclical items and 8 items which do not have sufficient acceptable factor load values in Story Writing Anxiety Scale, the scale was finally formed with 26 items and five factors.

Findings on CFA

Findings on confirmatory factor analysis (CFA) of the study are shown in Table 4 and Figure 2.

	Values	Fix Index
χ^2	622.526	-
Degree of Freedom	286	-
р	0.000	-
χ^2/df	2.177	<5
NNFI/TLI	0.914	>.90
CFI	0.924	>.90
RMSEA	0.052	<.08
SRMR	0.052	<.10

Table 4.

Confirmatory Factor Analysis Results of Story Writing Anxiety Scale

In accordance with Table 4, fit indexes obtained from CFA performed for construct validity of the scale were examined and chi-square value (x2=622.526 sd=286, p=0.00) was found to be statistically meaningful. When NNFI/TLI and CFI values are over .95, it means excellent fit, when they are over .90, it means good fit (İlhan and Çetin, 2014). The scale has TLI=.914 and CFI=.924, which means fit indexes are good. When RMSEA is below .05, it means excellent fit, when it is below .08, it means good fit (İlhan and Çetin, 2014; Jöreskog and Sörbom,1993 cited in Çokluk, Şekercioğlu and Büyüköztürk, 2012). This scale has RMSEA=.052, which means good fit index. For SRMR value, .05 means excellent fit, and .10 value means acceptable fit (İlhan and Çetin, 2014; Schermelleh-Engel and Moosbrugger, 2003). This scale has SRMR=.052, which means good fit index.

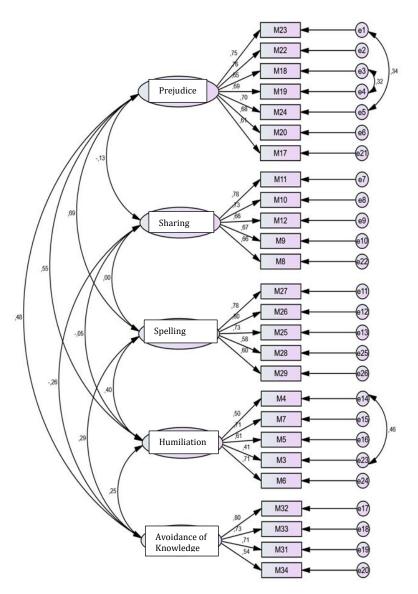


Figure 2. Findings on Confirmatory Factor Analysis

Findings on Reliability of Story Writing Anxiety Scale

Reliability value points out the degree of an evaluation instrument yields the same result in repeated measurements (Baş, 2010). Cronbach Alpha value was considered in order to prove reliability of Story Writing Anxiety Scale. For Tavakol and Dennick (2011), when Cronbach Alfa values are between .70 and .95, these values are considered to be acceptable. For DeVellis (2017), if the value is below .60, it is unacceptable; if it is between .60 and .65, it is undesirable; if it is between .65 and .70, it is minimally acceptable, if it is between .70 and .80, it is respectable, if it is between .80 and .90, it is very good and if it is over .90, the researcher should consider shortening the scale. Table 5 displays Cronbach Alpha values of the scale in general and its subfactors.

Table 5.

Subfactors	Cronbach alpha value
Prejudice	.870
Sharing	.826
Spelling error	.825
Humiliation	.750
Avoidance of Knowledge	.783
General	.853

Cronbach Alpha Values of Story Writing Anxiety Scale and its Subfactors

In accordance with Table 5, it is possible to say that Cronbach Alpha value of the final scale is .853, which means very good, after the exploratory factor analysis. As for Cronbach Alpha values of subfactors, prejudice factor is .870, sharing factor is .826, spelling error factor is .825, respectively, which are very good while humiliation factor is .750 and avoidance of knowledge is .783, which are good and acceptable.

4. RESULTS AND SUGGESTIONS

As a result of the research, a 5-Likert-type scale was formed with 5 dimensions measuring story writing anxiety and including 26 items. Each subfactor is named in accordance with the characteristics of the items they are covered in (Karasar, 2015). After taking the view of two Turkish Education field experts, subfactors of this scale was named as follows: Prejudice, sharing, spelling error, humiliation and avoidance of knowledge. Total variance explained with 26 items and 5-subfactor-construct of "Story Writing Anxiety Scale" is 57.827. The variance explained by construct of the scale was found sufficient to explicate the characteristics measured (Tavşancıl, 2018; Büyüköztürk, 2014)). It is a significant

criterion that variance explained exceeds 50% of the total variance since if factor construct formed explains less than the half of the variance, it is not likely to say it is representative (Yaşlıoğlu, 2017).

In this study, factor load cut-off value is 0.5 and factor load values of the study are between .534 and .822. It is found that the values obtained are good and correspond with the literature (Tabachnick and Fidell, 2013; Büyüköztürk, 2014; Yaşlıoğlu, 2017; Şencan, 2005).Upon examination of fit indexes of scale construct, it is found to have fit indexes in these values: χ^2/df = 2.177, TLI= 0.914, CFI= 0.924, RMSEA= 0.052 and SRMR= 0.052. Fit indexes found correspond with the literature (Byrne, 1998; İlhan and Çetin, 2014; Schermelleh-Engel and Moosbrugger, 2003). For reliability of the scale, Cronbach Alpha value of the whole 26 items was found .853 for internal consistency. This value is acceptable for Tavakol and Dennick (2011), which proves internal consistency of the scale is sufficient.

It is also possible to make further research on what kind of a construct this story writing anxiety scale to be obtained as a result of this study will put forward in primary school, other sections of the secondary school, high school and university. Reasons of regional anxiety can be measured with a country-wide comparison. Relationship between the data obtained from the scale developed and authentic variables can be examined. Since this study groups and in private schools. Since it is considered the scale in this study may be beneficial to especially Turkish teachers, some methods and techniques that will keep students' story writing anxiety at a certain level can be determined in accordance with the lesson methodology and techniques.

References

- Akaydın, Ş., & Kurnaz, H. (2015). Lise öğrencilerine yönelik yazma tutum ölçeği: geçerlik ve güvenirlik çalışması. *Mustafa Kemal Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, 12*(32), 246-261.
- Akbayır, S. (2007). *Eğitim fakülteleri için cümle ve metin bilgisi*. (Revised 5th Printing). Ankara: Pegem Akademi.
- Alexander, B. (2011). *The new digital storytelling: creating narratives with new media.* PRAEGER, ABC-CLIO: Santa Barbara, CA, US.
- Aydın, S., & Zengin, B. (2008). Yabancı dil öğreniminde kaygı: bir literatür özeti. *Journal of Language* and *Linguistic Studies*, 4(1), 81-94.
- Aytan, N., & Tunçel, H. (2015). Yabancı dil olarak Türkçe yazma kaygısı ölçeğinin geliştirilmesi çalışması. *Mustafa Kemal Üniversitesi Sosyal Bilimler Enstitüsü Dergisi*, *12*(30), 50-62.
- Babacan, M. (2008). *Yazılı ve sözlü anlatım (kompozisyon bilgileri).* (Revised 2th Printing). İstanbul: 3F Yayınevi.
- Baki. Y. (2015). *Dijital öykülerin altıncı sınıf öğrencilerinin yazma sürecine etkisi* (Unpublished Doctoral Dissertation). Atatürk University, Institute of Educational Sciences.

- Baş, T. (2010). Anket. Anket Nasıl Hazırlanır? Anket Nasıl Uygulanır? Anket Nasıl Değerlendirilir? (Extended 6th Printing). Seçkin: Ankara.
- Büyüköztürk, Ş. (2014). Sosyal bilimler için veri analizi el kitabı. İstatistik, araştırma, deseni spss uygulamaları ve yorum. (Revised 19th Printing). Ankara: Pegem Akademi.
- Brown, T. A. (2006). Confirmatory factor analysis for applied research. (David A. Kenny, Series Editor). New York: The Guilford Press.Byrne, B. M. (1998). Structural equation modeling with LISREL, PRELIS and SIMPLIS: Basic concepts, applications, and programmings. London: Lawrence Erlbaum Assocatiates, Publishers.
- Can, E., & Topçuoğlu Ünal, F. (2017). Ortaokul öğrencilerine yönelik yazma tutum ölçeği: geçerlik ve güvenirlik çalışması. *International Journal of Languages' Education and Teaching*, *5*(3), 203-212.
- Çıralı, H. (2014). *Dijital hikâye anlatımının görsel bellek ve yazma becerisi üzerine etkisi.* (Unpublished master's thesis). Hacettepe University, Institute of Educational Sciences.
- Çokluk, Ö., Şekercioğlu, G., & Büyüköztürk, Ş. (2012). Sosyal Bilimler İçin Çok Değişkenli İstatistik SPSS ve LISREL Uygulamaları. (2nd Printing). Ankara: Pegem Akademi.
- Comrey, A. L., & Lee, H. B. (2009). *A first course in factor analysis.* (Digital Printing). New York: Psychology Press.
- Cüceloğlu, D. (2003). İnsan ve davranışı psikolojinin temel kavramları. (12. Baskı). İstanbul: Remzi Kitabevi.
- Demirer, V. (2013). *İlköğretimde e-öyküleme kullanımı ve etkileri*. (Unpublished doctoral dissertatoion). Necmettin Erbakan University, Institute of Educational Sciences.
- DeVellis, R. F. (2017). *Ölçek Geliştirme Kuram ve Uygulamalar*. (Translated Tarık Totan). (3rd Printing). Ankara: Nobel Yayın Dağıtım.
- Doğan, D. M. (2005). *Büyük Türkçe sözlük.* İstanbul: Pınar Yayınları.
- Erkuş, A. (2016). *Psikolojide Ölçme ve Ölçek Geliştirme-1 Temel Kavramlar ve İşlemler*. (3rd Printing). Ankara: Pegem Akademi.
- Field, A. (2009). *Discovering statistics Using SPSS*. London: SAGE Publications Ltd.
- Frazel, M. (2010). Digital storytelling: guide for educators. Eugene, OR: International Society for Technology in Education (ISTE). Retrieved September 07 2017, from http://www.iste.org/images/excerpts/digsto-excerpt.pdf
- Göçen, G. (2014). Dijital öyküleme yönteminin öğrencilerin akademik başarı ile öğrenme ve ders çalışma stratejilerine etkisi. Yayınlanmamış yüksek lisans tezi. Muğla Sıtkı Koçman Üniversitesi, Eğitim Bilimleri Enstitüsü.
- Göçer, A. (2014). Yazma tutum ölçeğinin (ytö) Türkçeye uyarlanması: geçerlik ve güvenirlik çalışması. *Kastamonu Eğitim Dergisi, 22*(2), 515-524.
- Güneş, F., Kuşdemir, Y., & Bulut, P. (2017). Yazma öz yeterlik ölçeğinin psikometrik özellikleri. International Journal of Social Science, 58, 101-114.
- Henson, R. K., & Roberts, J. K. (2006). Use of Exploratory Factor Analysis in Published Research: Common Errors and Some Comment on İmproved Practice. *Educational and Psychological Measurement*, 66, 393–416.
- İlhan, M., & Çetin, B. (2014). LISREL ve AMOS Programları Kullanılarak Gerçekleştirilen Yapısal Eşitlik Modeli (YEM) Analizlerine İlişkin Sonuçların Karşılaştırılması. *Eğitimde ve Psikolojide* Ölçme ve Değerlendirme Dergisi, 5(2), 26-42.

- İşcan, A. (2015). Yabancı dil olarak Türkçe öğretiminde yazma kaygısı üzerine bir inceleme (Ürdün üniversitesi örneği). *Dil ve Edebiyat Egitimi Dergisi, 14,* 135-152.
- İşeri, K., & Ünal, E. (2010). Yazma eğilimi ölçeğinin Türkçeye uyarlanması. *Eğitim ve Bilim, 35*(155), 104-117.
- Kahraman, Ö. (2013). Dijital hikâyecilik metoduyla hazırlanan öğretim materyallerinin öğrenme döngüsü giriş aşamasında kullanılmasının fizik dersi başarısı ve motivasyonu düzeyine etkisi. (Unpublished doctoral dissertations). Balıkesir University, Institute of Science.
- Karakuş Tayşi, E., & Taşkın, Y. (2018). Ortaokul öğrencileri için yazma kaygısı ölçeğinin geliştirilmesi: geçerlik ve güvenirlik çalışması. Uluslararası Türkçe Edebiyat Kültür Eğitim Dergisi, 7(2), 1172-1189.
- Karasar, N. (2015). Bilimsel Araştırma Yöntemi Kavramlar İlkeler Teknikler. Ankara: Nobel Yayın Dağıtım.
- Kurudayıoğlu, M., & Bal, M. (2014). Ana dili eğitiminde dijital hikâye anlatımlarının kullanımı. *Sakarya Üniversitesi Eğitim Fakültesi Dergisi, 28,* 74-95.
- MEB, (2019). Türkçe Dersi Öğretim Programı İlkokul ve Ortaokul 1, 2, 3, 4, 5, 6, 7 ve 8. Sınıflar. Ankara: MEB.
- Robin, B. (2006). *The educational uses of digital storytelling. in society for information.* Technology & Teacher Education International Conference. Retrieved from http://digitalstorytelling.coe.uh.edu/articles/Educ-Uses-DS.pdf
- Schermelleh-Engel, K., & Moosbrugger, H. (2003). Evaluating the Fit of Structural Equation Models: Tests of Significance and Descriptive Goodness-of-fit Measures. *Methods of Psychological Research Online* 8(2), 23-74.
- Şen, Ü., & Boylu, E. (2017). Türkçeyi yabancı dil olarak öğrenenlere yönelik yazma kaygısı ölçeğinin geliştirilmesi. *Uluslararası Türkçe Edebiyat Kültür Eğitim Dergisi,* 6(2), 1122-1132.
- Şencan, H. (2005). Sosyal ve Davranışsal Ölçümlerde Güvenilirlik ve Geçerlilik. Ankara: Seçkin Yayınları.
- Şengül, M. (2013). Ortaokul öğrencilerine yönelik yazma öz yeterlikleri ölçeği geliştirme çalışması. *Türkiye Sosyal Araştırmalar Dergisi, 17*(1), 81-94.
- Tabachnick, B. G., & Fidell L. S. (2013). *Using Multivariate Statistics*. (6th Printing). Pearson Education.
- Taşkaya, S. M. (2017). *Dil ve Edebiyat Öğretimi Yöntemleri*. A. Akkaya (Ed), Dil ve Edebiyat Öğretimi-I (Özel Öğretim Yöntemleri) (pp. 99-198). Elazığ: Asos Yayınları.
- Tavakol, M., & Dennick, R. (2011). Making sense of Cronbach's alpha. International Journal of Medical Education, 2, 53-55. Retrieved from alpha.pdf
- Tavşancıl, E. (2018). *Tutumların Ölçülmesi ve SPSS ile Veri Analizi*. (6th Printing). Ankara: Nobel Yayınları.
- Temizkan, M. (2014). Yaratıcı Yazma Süreci (Hikaye Yazma). Ankara: Pegem Akademi.
- Türk Dil Kurumu. (2011). Türkçe sözlük. (11. Baskı). Ankara: Türk Dil Kurumu Yayınları.
- Yaşlıoğlu, M. M. (2017). Sosyal bilimlerde faktör analizi ve geçerlilik: keşfedici ve doğrulayıcı faktör analizlerinin kullanılması. *İstanbul Üniversitesi İşletme Fakültesi Dergisi, 46* (special issue), 74-85.

- Yılmaz Soylu, M., & Akkoyunlu, B. (2019). Yazma öz-yeterlik ölçeğinin Türkçeye uyarlanması. *Kastamonu Eğitim Dergisi*, *27*(5), 2233- 2242.
- Yüksel, P. (2011). Using digital storytelling in early childhood education: a phenomenological study of teachers' experiences (Unpublished doctoral dissertation). Middle East Technical University, Institute of Science.
- WEB1 Retrieved May 16, 2019, from https://brenebrown.com/about/
- WEB2 Retrieved May 16, 2019, from http://barisozcan.com/kimdir/
- WEB3RetrievedMay16,2019,fromhttps://trends.google.com/trends/explore?date=all&geo=TR&q=%2Fg%2F1q6hz9cnw
- WEB4 Retrieved May 10, 2019, from https://otherworkers.com/storyteller-olmak/

Ethics committee permission for this study was obtained from the Ethics Committee of the Rectorate of Sakarya University with the number of E.273 dated 07/01/2019.