



A rubric study for the evaluation of caricature creation building skills of 6th grade students

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Abstract

This study aimed to develop “Caricature Creation Rubric” which can be used to evaluate the products produced by 6th grade students at the end of their caricature creation process and to make its validity and reliability studies. The criteria in the graded key were determined by using the “Caricature Literacy Module” prepared by the researcher. Following the performance definitions, a pilot application was conducted to another group apart from the study group in order to increase the validity of the graded scoring key. The pilot study was carried out with six girls and one boy, who were capable of creating caricatures and were in the same class level as the study group. The necessary corrections were made in line with the feedback received from the pilot application and the validity and reliability studies of the graded scoring key were started. The data obtained for the reliability of the rubric which was specially developed by the researcher was used to evaluate the skill of creating caricatures. For the reliability the consistency between the scores given by two different evaluators was examined. For this purpose, the Pearson Momentum Multiplication Correlation Coefficient formula was used for the consistency between the total scores obtained from the graded scoring key according to different evaluators and the consistency between the scores for each sub-group. As a result, it was seen that the rubric which was developed to evaluate caricature creation skills can be used to measure and evaluate the caricature creation works of 6th grade students.

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Keywords: Caricature Literacy; Caricature Creation; Rubric / Graded Scoring Key

1. Introduction

Research on education emphasizes the effect of supporting the entertaining side of learning in obtaining permanent information and argues that knowledge is more permanent in the mind when individuals learn with fun. For this reason, learning environments, materials used in education have been differentiating in recent years and are moving away from the standard line. As a reflection of this change, interest in the use of visual materials in educational environments has increased in recent years.

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1.1. Literature Review

Caricature, which dates back to Paleolithic Age, is one of the educational materials, we often have seen in educational environments in recent years because it allows learners to think with fun, develop their communication skills and prevent negative attitudes students towards the courses (Palaz, Kılcan, & Köroğlu, 2015).

Derived from the Italian word “caricare” (Topuz, 1986), caricature means exaggeration, the act of loading. Caricature as a visual material is a rich, versatile and remarkable material. The question “What is caricature?” has been answered with different definitions in the literature. The humorous, remarkable aspect of the event or situation to be taken as the basis (Avşar, 2007), thought and humor melted in a ladle and depicted in a pot (Akkaya, 2011), human or goods exaggerated description (Kılınç K., 2006), live or inanimate humor (Palaz, Kılcan, & Köroğlu, 2015), which is based on exaggerating and drawing comic aspects of beings in a way, is a very powerful branch of art that describes everything with lines (Dokgöz, 2006), visual elements in textbooks (Kabapınar, 2003).

The diversity in its definition is also seen in caricature genres and there are many caricature classifications in the literature: Özşahin (2009) divides caricatures into three categories: political, humorous-comic and explanatory. He states that political caricatures deal with current affairs and are based on humor and criticism. The illustrative caricature emphasizes that products are mostly focused on advertising and teaching materials. Kazanevsky (2005) classifies caricatures as caricatures which convey the philosophical problems of people, criticize the social structure of society and include humor. Avşar (2007); art, idea and humor. The art, caricature and humor that he considers as the main components of caricature; indicates that it is not possible to create caricatures. Uslu's (2007) classification varies according to the type of material used in caricature, technique and fiction structure characteristics of caricature. According to the materials used, the caricatures are separated in black and white according to the technique and they are divided into single frames, vignettes and bands.

Considering the common features of these classifications, caricature types can be examined under four headings:

Caricatures in terms of meaning	Cartoons in terms of expression	Cartoons in terms of Construction	Cartoons in terms of Technics
<ul style="list-style-type: none"> •Political Cartoon •Humor Cartoon •Descriptive Cartoon 	<ul style="list-style-type: none"> •Written Cartoon •Unwritten-on Cartoon 	<ul style="list-style-type: none"> •Vignette Cartoon •Single Frame Cartoon •Band Cartoon 	<ul style="list-style-type: none"> •Colored Cartoons •Black and White Cartoon

The mission of education is quite big in developing individuals' knowledge and skills and in making these knowledge and skills permanent. In order to realize the mission of education, educational programs, acquisitions and tools are needed. One of these tools is caricature; even one of the most influential because of its educational function (Uslu, 2007) caricatures.

When the studies related to caricature are examined, it is seen that the success in teaching increases when many courses are supported with caricatures. Social Studies education (Akengin & İbrahimoğlu, 2010; Durualp, 2006; Aksoy, Karatekin, Kuş, & Sönmez, 2010; Sidekli, Er, Yavaşer & Aydın, 2014); History education (Kılınç, 2006); Science education (Köse, 2008; Balım, İnel & Evrekli, 2008; Kabapınar, 2003; Oluk & Özalp, 2007) Citizenship and Democracy education (Uygun & Üztemür 2015), Turkish Language and Literature (Üstün, 2007), Mathematics education (Uğurel) & Moralı, 2006) Biological education (Kılınç & Salman, 2006; Köse, 2008) in the field of caricature-supported

training in favor of the experimental group and the effect of using caricature as a teaching material was revealed.

In the literature, when we categorize the studies conducted in Turkish education, it has been shown that caricatures improve vocabulary (Varioğlu, Şeref, Gedik, & Yılmaz, 2014; Mürsel, 2009; Kıvrak, 2016; Topal, 2007); contribution to written expression skills (Üstün, 2007); that it provides significant advantages in terms of teaching difficulties in language and grammar teaching (Delp & Jones, 1996; Morris, Merrit, Fairclough, Birrell, & Howitt, 2007) and its impact on academic achievement (Başarmak & Mahiroğlu, 2016; Savaş, 2014; Rule & Schneider, 2009). Yaman, 2010; Saat, Er, & Üstten, 2018; Wright, 2003); There are studies on the effect of preschool students on speaking and listening skills (Akran & Kocaman, 2018).

There are many reasons why caricatures are preferred as instructional materials in educational environments. Although these reasons vary according to the subject area, caricatures have interdisciplinary characteristics. Because of the interdisciplinary characteristics of caricatures, it is preferred to use caricature as a teaching material in many different fields.

Humor is one of the main features. The humor feature emerges as an important force in terms of motivating students in the educational environment. Through the caricature, an educational environment is created in which students learn while having fun.

Caricature facilitates communicating and enables students to express themselves better and encourages students with lack of self-confidence (Haugaard, 1973). One of the contributions of caricatures to individuals as instructional material is to develop individuals' problem-solving skills and encourage them to think critically.

Caricatures are seen by educational technologists as key to a better science education (Copenhaver, 2005). In the studies carried out in the literature, caricature's contributions to educational environments are described as follows:

- As it contains materials for different types of intelligence, it has the feature of facilitating remembering. In this respect, caricatures directly contribute to the permanence of learning.
- The development of oral and written communication skills of the students can be ensured through oral and written expression studies carried out during the activities of meaning making caricature.
- At the core of the caricature is a critical approach to individual or social events. This critical approach enables individuals to approach social events from a critical perspective and become aware of critical thinking.
- Through caricature, which is one of the visual material types, individuals discover their interest in this field and also develop their aesthetic tastes.
- Another benefit of using caricature in educational environments is that it embodies abstract knowledge and contributes to the permanence of learning and shortens the time spent for learning.
- Caricature is an important element in controlling the cognitive understanding as well as improving the skill of literacy.
- Caricature contributes to students' thinking skills by enhancing their creativity and discovering their abilities.
- When used as a caricature educational material, it provides the opportunity to bring current events and popular culture products to the classroom.

- Caricatures can be used to comprehend the subject as well as the stages of preparation to the course or the determination of students' readiness, and to draw attention to the subject (Vogler, 2004; Cho & Reich, 2008; Keogh & Naylor, 1999; Morrison, Bryan, & Chilcoat, 2002; Kleeman, 2006).

In language teaching, caricatures have the competence to serve this purpose when used correctly and in place. Göçer and Akgül (2018) state that caricatures can be used in the acquisition of basic skills, especially writing skills. It is stated that caricatures can also be used in grammar teaching due to the difficulty of grammar issues and being based on memorization (Akkaya, 2011). Savaş (2014) examined the effect of the visual materials with humor element on their attitudes towards the Turkish course and stated that the attitude group mean scores of the experimental group were higher than the mean scores of the control group towards the Turkish lesson. It is seen that the intensity of using caricature in Turkish education is in the field of teaching Turkish to foreigners (Özkan, 2009; Melanlıoğlu, Tayşi, & Özdemir, 2012).

As a result, caricatures; it is very effective in making sense of information, organizing and linking different information. Because of these properties, it is one of the original material types that can be used in education.

Gradual scoring keys, which are used in the field of education dating back 40-50 years, are scoring tools that set the evaluation criteria in the measurement process. This measurement tool designed to evaluate performance is called a graded scoring key or rating scale in our country. Andrade (1997) defines the scoring instrument in which the criteria for what is important in the study are clearly laid out.

The difference of the graded scoring key from other measurement tools is that it has teaching feature as well as measuring feature. It is a measurement tool that directly contributes to the performance of the students because it sets the criteria for performance evaluation and shows how to reach the criteria (Karamanoğlu, 2006). The Graded Scoring Key is a tool that enables quick and objective evaluation of performance levels with many different characteristics, from written or oral presentation to laboratory activities. Students have the opportunity to see what they are missing and see what they are doing right and are motivated. Because, in each stage, the content of the stage is indicated besides the score that the student will receive.

Mertler (2001), before preparing a graded scoring key “What criteria will be evaluated according to the performance, what will be looked at when determining the success in the specified criteria, what will be the difference between a good work and an inadequate work, how the headlight will be defined, how the assessment is valid and reliable will be taken?” questions.

Aslanoğlu & Kutlu (2003) state that graded scoring keys consist of three parts: evaluation criteria, criteria definitions and scoring strategy. When preparing these three sections, firstly performance is chosen. At this stage, the performance of the student is determined. The dimensions of the selected performance are then determined. At this stage, the sub-skills necessary for the successful acceptance of the student are explained.

The performance levels are determined after the sub-skills are identified. Number or descriptive expressions are used when showing the performance level. In some graded scoring keys, both number and descriptive expression can be used together. Levels are determined from the lowest to the most successful performance.

After determining the performance levels, performance definitions are written for each level separately. First, the most successful performance level and the lowest performance level are defined. Then the definition of intermediate levels is made.

There are two types of graded keys, analytical -depending on the performance to be observed in the students- and holistic.

In holistic evaluation, the outcome is more important than the process. Different levels of performance are defined superficially. Performance is evaluated as a whole without being disassembled. Suitable for superficial and short-term evaluation purposes. Superficial performance levels such as high level, developed and inadequate are determined.

Korkmaz (2009) recommends that holistic assessment should be made especially when the teacher prepares a graded key for performance for the first time, when there is a need for short-term evaluation, and when it is difficult to divide performance into dimensions.

They are directives where the process is at the forefront rather than the result, and different levels of performance are defined clearly and in detail.

Korkmaz (2009) recommends that analytical evaluation should be performed when there is a need for a long-term evaluation, when the performance is multidimensional, and when the dimensions are easy to grade.

The scores obtained from each department as a result of scoring according to the definition of performance are determined by the student's performance level and total score.

There are some points that need to be considered in order to achieve the purpose of using graded scoring key and to evaluate students' performance objectively. Moskal (2003) states that when developing a graded key, the criteria should be observed between the criteria of performance and the target, the criteria should be observable, and the language and scoring used should be understood.

There are many studies on the development of graded scoring keys. Andrade (1997) states that there are stages of Developing Samples, Listing Criteria, Expressing Qualifications Degrees, Applying on Samples, Using Individual and Group Assessment, Reviewing, Using Teacher Assessment e stages in developing graded key.

In the first stage, the characteristics of the study are defined based on the sample student work of similar task. When the criteria are listed, criteria list is created based on the specified features. When preparing qualifications, first the most successful and the most unsuccessful performance grades are written and then the intermediate level performances are written. Initially, a graded scoring switch is tried on the samples. After the trial, grading scoring key is evaluated. If necessary, the teacher applies the rubric to the students after the necessary arrangements are made through the review.

The constructivist approach affected both the curriculum and the assessment approach. Measurement and evaluation changed from the result-based approach to the process-based approach, and the student's progress in the process started to be taken into consideration while the student's success continued to be assessed with a grade. Thus, the students actively participated in the evaluation process.

The contribution of graded scoring to students is not limited to this. With the use of a graded scoring key, students can better understand the content of their performance and produce more successful products. Shepard (2000) therefore sees rubric as a source of understanding and understanding, not as a source of reward or punishment. Feedback in the nature of rubric makes learning easier.

The use of a graded scoring key contributes to the students' ability to exhibit critical approaches, cause and effect relationships, being open to different ideas and data-based evaluation (Yıldız, 2005). With this contribution to the use of graded scoring key, students will be equipped with 21st century skills.

The use of a graded scoring key also benefits teachers. It provides the objectivity of the assessment process for the teacher as well as the progress and deficiencies of the students. In addition, it allows

teachers to see the impact of the methods and techniques they use to get feedback instantly (Yıldız, 2005). This paves the way for the evaluation process to be completed sooner.

New approaches in measurement and evaluation emphasize knowledge and skill practices and students can structure information in the face of problems (Korkmaz, 2009). At this point, the graded scoring key as a new assessment approach is noteworthy as an important assessment tool.

2. Method

This research was carried out to develop a measurement tool to determine the caricature creation skills of individuals. In order for the feature to be studied in a scientific way, it is very important that the relevant feature is measurable and that there is a standard measurement tool. In this study, validity and reliability procedures (calculations) were performed in order to develop a scale that was designed as a graded scoring key, which measures the students' caricature creation skills.

2.1. Sample / Participants

The study group consisted of sixth grade students attending a secondary school in the central district of Afyonkarahisar. The preliminary application was carried out with 7 students, 6 of whom were girls and 1 of them were boys. The working group of the general application consists of 107 students. 57 of the students are female and 50 are male. Table 1 presents the descriptive values of the students in the study group.

Table 1. Distribution of Students in the Working Group by Gender

Group	Sex	N	N(total)
Preliminary Application	Girl	6	7
	Boy	1	
General Application	Girl	57	107
	Boy	50	

2.2. Instrument(s)

The students were asked to answer twenty-seven open-ended questions about Content Creation, Presenting Valid and Reliable Information, Creating Effective Presentations which were prepared by using the Caricature Literacy Module, and then these answers were evaluated with a graded scoring key.

Before the “Caricature Literacy Caricature Creation Scale” was created, the type of graded scoring key was chosen for the purpose of the study. After determining the type of scoring key, the sub-dimensions of the performance to be evaluated were determined. Successful and unsuccessful performance levels were determined for the sub-dimensions. The score levels of the performance levels were determined as 4 points for successful performance and 1 point for insufficient points. Then, the performance definition of each criterion was made.

Table 2. Distribution of Scores of Developed Grade Scoring Key

Total Score	Qualitative Expression
19	Poor
20-38	Developable
39-57	Good
58-76	Very Good

Graded scoring key consists of nineteen criteria and three parts including: “creating caricatures for the purpose”, “considering the target audience”, “choosing the appropriate type of caricature for the determined purpose”, “using the refractive lines of the caricature”, “creating text based on the caricature”, “using art elements and design principles”, “reorganizing caricatures”, “creating caricatures appropriate to the theme and subject”, “reflecting the current themes to the caricatures”, “caricaturing what you listen”, “caricaturing the text you read”, “caricaturing emotions, thoughts, dreams, information and impressions”, “realizing the function of laws that organize perception, “using persuasion and propaganda techniques”, “distinguishing between information and interpretation”, “questioning the accuracy of the created material”, “questioning the validity and reliability of visual material”, “applying ethical and legal principles while creating visual material” and “selecting visual materials appropriate for the purpose. The specification table of the Caricature Literacy-Caricature Forming Scale is presented below:

Table 3. Caricature Creation Scale Specification Table

Learning Area	Goal	Related Gain	Item Number
Caricature Creation	Content Creation	Creates caricatures for the purpose.	1
		Evaluates a number of variables belonging to the target group when creating caricatures.	2
		Select the appropriate caricature type for the specified purpose.	3
		Uses refraction lines in caricature creation.	4
		Creates text based on caricatures.	5
		Uses art elements and design principles in creating visual art works.	6
		Reorganizes caricatures to convey emotions, thoughts, dreams and impressions.	7
		Creates caricatures from ideas in line with the theme and topic determined.	8
		Reflects current events to the caricature.	9
		Uses visualization strategy to make sense of what they listen during and after listening.	10
		Uses visualization strategy to make sense of text during and after reading.	11
		It visualizes emotions, thoughts, dreams, knowledge and impressions through caricatures.	12
		Realize the function of laws that organize the perception used in the perception of visual materials in material creation.	13
		Uses the elements of persuasion and propaganda suitable for the purpose of creating caricatures.	14
	Presenting Valid and Reliable Information	Distinguishes the information in the content of the material and the interpretation while creating a caricature.	15
		Question the accuracy of the material created by creating caricatures from different materials.	16

		Discusses the credibility of the source on which the caricature is based.	17
		Applies ethical rules when creating caricatures.	18
	Creating Effective Presentations	Content in the presentation creates the harmony of caricatures.	19

The levels in determining student achievement has been graded as follows; performance with significant shortcomings (1 point)”, limited performance to improve (2 points)”, “successful performance (3 points)” and “excellent performance (4points). The sum of the scores obtained from the criteria constitutes the achievement grade for the student's ability to create caricatures. Since there are nineteen criteria and four achievement levels in the key, the highest score is 76 and the lowest score is 19. The graded scoring key is attached.

2.3. Data Collection Procedures

In order to increase the reliability of the graded scoring key, the sample performances used in different studies were examined. Expert opinion was taken for definition of criteria and content. Following the performance definitions, a pilot application was conducted to increase the validity of the graded scoring key to another group outside the study group. The pilot study was carried out with a total of seven students, six girls and one boy, who were capable of creating caricatures and were in the same class level as the study group. The necessary corrections were made in line with the feedback received from the pilot application and the validity and reliability studies of the graded scoring key were started.

The general implementation was realized in the second semester of the 2018-2019 academic year. Since the aim of developing a scale is to apply it to a group with similar characteristics, it is very important to select individuals who will represent the group's range at a good level and to take part in the trial implementation of these individuals (Erkuş, 2016). This will ensure that the item statistics of the scale are more accurate. In order to calculate the reliability coefficient of the graded scoring key for caricature creation skills, a group of students studying in a public school in Afyonkarahisar city center were applied in general. Volunteerism and heterogeneous distribution were taken into consideration in the determination of the sample and easily accessible sample selection technique was used since the researcher applied the trial application at the school where he worked. In the trial application of the scale, Pituch & Stevens (2006) 5-20 person formula was used for the variable (item) and the scale was applied to 107 participants. N = 107 sample size and scale development analyzes were started.

2.4. Data Analysis

The reliability studies of the prepared graded key were conducted. The answers of the students to nineteen open-ended questions about Content Creation, Presenting Valid and Reliable Information, Creating Effective Presentations which were prepared by using Caricature Literacy Module were evaluated by two different evaluators using graded scoring keys. The data obtained in relation to the results were evaluated in SPSS 18.0 statistical program. For the reliability of the prepared scoring key, the consistency between the scores given by two different evaluators was examined.

According to the “Central Limit Theorem, the total or arithmetic mean showing the same and independent distribution converges to the normal distribution provided that the sample size is 30 and above. On the other hand, as the sample grows without considering the distribution of the population, the shape of the distribution approaches to normal and the validity and reliability levels of inferences increase (Levine, Ramsey and Smidt, 2001). For this reason, the Pearson Momentum Multiplication

Correlation Formula was used for the total scores obtained from the graded scoring key according to different evaluators and for the consistency between the scores made for each sub-dimension.

3. Results

The results of the Pearson momentum multiplication correlation coefficient, which are made to determine the consistency between the total scores obtained from the graded scoring key according to two different evaluators, are given in the table.

Table 4. Correlation results of the total scores obtained from the graded key according to two different evaluators

(Pearson Product Momentum Correlation)		First Reviewer Ratings	Second Reviewer Ratings
First Reviewer Ratings	Correlation Coefficient (r)	1	.851**
	p		.000
	N	107	107
Second Reviewer Ratings	Correlation Coefficient (r)	.851**	1
	P	.000	
	N	107	107

** p <0.05 is significant.

As it is seen in the table, there is a significant, positive and high relationship between the scores given by the first evaluator and the total scores given by the second evaluator ($r = 0.851$, $p < 0.05$). There is a high correlation between the scores given by two different evaluators using the graded scoring key to the caricature creation test questions. This indicates that the graded scoring key is sufficiently reliable. According to Büyüköztürk (2004), Pearson momentum multiplication correlation coefficient (r) can be defined as a high level relationship if the absolute value is greater than 0.70.

The results of the Pearson momentum multiplication correlation coefficient for determining the consistency between the scores obtained from each item of the graded scoring key according to two different evaluators are given in the table.

Table 5. Correlation results of the scores obtained from each item of the graded scoring key according to two different evaluators

(Pearson Product Moment Correlation)		First Reviewer Ratings	Second Reviewer Ratings
First Reviewer Ratings to M1	Correlation Coefficient (r)	1	,747**
	p		,000
	N	107	107
Second Reviewer Ratings to M1	Correlation Coefficient (r)	,747**	1
	p	,000	
	N	107	107
First Reviewer Ratings to M2	Correlation Coefficient (r)	1	,743**
	p		,000
	N	107	107
Second Reviewer Ratings to M2	Correlation Coefficient (r)	,743**	1
	p	,000	
	N	107	107
First Reviewer Ratings to M3	Correlation Coefficient (r)	1	,738**
	p		,000
	N	107	107

Second Reviewer Ratings to M3	Correlation Coefficient (r)	.738**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M4	Correlation Coefficient (r)	1	.740**
	p		.000
	N	107	107
Second Reviewer Ratings to M4	Correlation Coefficient (r)	.740**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M5	Correlation Coefficient (r)	1	.722**
	P		.000
	N	107	107
Second Reviewer Ratings to M5	Correlation Coefficient (r)	.722**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M6	Correlation Coefficient (r)	1	.743**
	P		.000
	N	107	107
Second Reviewer Ratings to M6	Correlation Coefficient (r)	.743**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M7	Correlation Coefficient (r)	1	.744**
	P		.000
	N	107	107
Second Reviewer Ratings to M7	Correlation Coefficient (r)	.744**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M8	Correlation Coefficient (r)	1	.723**
	P		.000
	N	107	107
Second Reviewer Ratings to M8	Correlation Coefficient (r)	.723**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M9	Correlation Coefficient (r)	1	.730**
	P		.000
	N	107	107
Second Reviewer Ratings to M9	Correlation Coefficient (r)	.730**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M10	Correlation Coefficient (r)	1	.760**
	P		.000
	N	107	107
Second Reviewer Ratings to M10	Correlation Coefficient (r)	.760**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M11	Correlation Coefficient (r)	1	.705**
	P		.000
	N	107	107
Second Reviewer Ratings to M11	Correlation Coefficient (r)	.705**	1
	p	.000	
	N	107	107
First Reviewer Ratings to M12	Correlation Coefficient (r)	1	.706**
	P		.000
	N	107	107
Second Reviewer Ratings to M12	Correlation Coefficient (r)	.706**	1
	P	.000	
	N	107	107
	Correlation Coefficient (r)	1	.924**

First Reviewer Ratings to M13	P		.000
	N	107	107
Second Reviewer Ratings to M13	Correlation Coefficient (r)	.924**	1
	P	.000	
	N	107	107
First Reviewer Ratings to M14	Correlation Coefficient (r)	1	.740**
	P		.000
	N	107	107
Second Reviewer Ratings to M14	Correlation Coefficient (r)	.740**	1
	P	.000	
	N	107	107
First Reviewer Ratings to M15	Correlation Coefficient (r)	1	.838**
	P		.000
	N	107	107
Second Reviewer Ratings to M15	Correlation Coefficient (r)	.838**	1
	P	.000	
	N	107	107
First Reviewer Ratings to M16	Correlation Coefficient (r)	1	.750**
	P		.000
	N	107	107
Second Reviewer Ratings to M16	Correlation Coefficient (r)	.750**	1
	P	.000	
	N	107	107
First Reviewer Ratings to M17	Correlation Coefficient (r)	1	.784**
	P		.000
	N	107	107
Second Reviewer Ratings to M17	Correlation Coefficient (r)	.784**	1
	P	.000	
	N	107	107
First Reviewer Ratings to M18	Correlation Coefficient (r)	1	.710**
	P		.000
	N	107	107
Second Reviewer Ratings to M18	Correlation Coefficient (r)	.710**	1
	P	.000	
	N	107	107
First Reviewer Ratings to M19	Correlation Coefficient (r)	1	.708**
	P		.000
	N	107	107
Second Reviewer Ratings to M19	Correlation Coefficient (r)	.708**	1
	P	.000	
	N	107	107

As it is seen in the table, there is a positive, significant and high-level relationship between the scores given by the evaluators to each item of the graded scoring key ($r > 0.70$, $p < 0.05$). When the consistency of the scores given to the graded scoring key is examined, it is seen that the highest relationship is in 13 Article 13 0 (0.924) and the lowest relationship is in 11 Article 11 0, (0.705).

The results of the Pearson Momentum Multiplication Correlation Coefficient to determine the consistency between the scores obtained from each sub-dimension of the graded scoring key according to two different evaluators are given in the table:

Table 6. Correlation results of the scores obtained from the sub-dimensions of the scoring key according to two different evaluations

Size	(Pearson Product Moment Correlation)	First Reviewer Ratings	Second Reviewer Ratings
Content knowledge	Correlation Coefficient (r)	1	.844**
	P		.000
Providing Valid and Reliable Information	Correlation Coefficient (r)	1	.797**
	P		.000
Creating Effective Presentations	Correlation Coefficient (r)	1	.708**
	P		.000
	N	107	107

** p <0.05 is significant.

As seen in the table, there is a positive, significant and high-level relationship between the scores given by two different evaluators in all sub-dimensions ($r > 0.70$, $p < 0.05$). When the consistency of the scores given to the graded scoring key is examined, it is seen that the highest relationship is in the “Content information” sub-dimension (0.844) and the lowest relationship is in the Effective presentation creation” dimension (0.708).

4. Discussion

In this research, analytical rubric has been developed for the measurement and evaluation of caricature creation skills. The results obtained from the development and application of the rubric for caricature creation skills are presented below:

The answers of the students to nineteen open-ended questions about Content Creation, Presenting Valid and Reliable Information, Creating Effective Presentations which were prepared by using Caricature Literacy Module were evaluated by two different evaluator using graded scoring keys. For the reliability of the prepared scoring key, the consistency between the scores given by two different evaluators was examined.

There is a significant, positive and high relationship between the scores given by the first evaluator and the total scores given by the second evaluator ($r = 0.851$, $p < 0.05$).

There is a positive, significant and high correlation between the scores given by the evaluators to each item of the graded scoring key. When the consistency of the scores given to the graded scoring key is examined, it is seen that the highest relationship is in “Article 13,9 (0.924) and the lowest relationship is in 11 Article 11 0, (0.705).

There was a positive, significant and high correlation between the scores given by two different evaluators in all sub-dimensions ($r > 0.70$, $p < 0.05$). When the consistency of the scores given to the graded scoring key is examined, it is seen that the highest relationship is in the “Content information” sub-dimension (0.844) and the lowest relationship is in the Effective presentation creation” dimension (0.708).

5. Conclusions

After all these validity and reliability procedures, it can be said that the graded scoring key prepared to create a caricature is a valid and reliable measurement tool that can be used to determine the caricature creation skills of students.

There are some factors that limit the results of the studies. Therefore, a clear evaluation cannot be made by taking into account the results of the research and the results of the research must be confirmed.

In this study, the analysis of the graded scoring key developed for evaluating students' cartooning skills was carried out with a sample group specified in the study. For this reason, the fact that the validity and reliability study of the scale could not be performed with 6th grade students outside the study group can be considered as an important limitation of the scale.

Another limitation of the study is that the study group was selected only from Afyonkarahisar province. Therefore, the sample kept in studies of Turkey's wider to cover the different regions will give clearer results for scale.

One of the limitations of the study is the application of the scale to the grade 6 as a grade level. In this context, the scale developed by the researcher can be applied in grades 5, 7 and 8, and the results can be evaluated separately.

6. Ethics Committee Approval

The authors confirm that ethical approval was obtained from Uşak University the Committee for Research and Publication Ethics in the Social Sciences and Humanities (Approval Date: 11/10/2019 and Number 2019-50).

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Appendix

A. Cartoon Literacy Cartoon Creation Skill Scale

CARTOON LITERACY CARTOON CREATION SKILL SCALE

Dear Students,

This study is designed to measure your ability to create cartoons. Please respond by carefully reading all the contents. This is not an assessment tool for an exam or a Turkish course. Your responses to these articles will only be used for scientific purposes. When answering questions, you are not expected to reveal a perfect work of art in your drawings. Just make simple drawings (Stickman). Try to answer every question if possible. Thank you for your contribution to the research.

Postgraduate Kadir KAPLAN

PERSONAL INFORMATION FORM

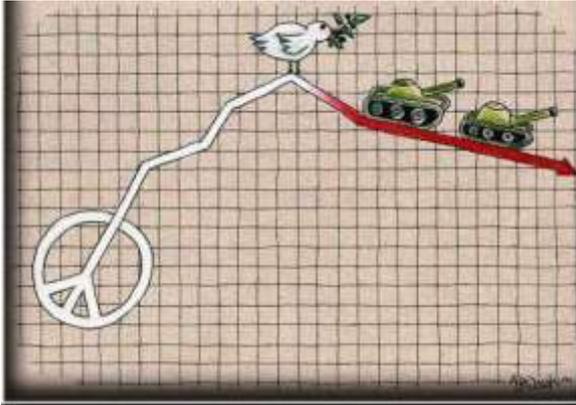
Your Gender	Female <input type="checkbox"/>	Male <input type="checkbox"/>				
Your Father's Education	Can't Read and Write <input type="checkbox"/>	Primary School Graduate <input type="checkbox"/>	Middle School Graduate <input type="checkbox"/>	High School Graduate <input type="checkbox"/>	License Graduate <input type="checkbox"/>	Postgraduates <input type="checkbox"/>
Your Mother's Education	Can't Read and Write <input type="checkbox"/>	Primary School Graduate <input type="checkbox"/>	Middle School Graduate <input type="checkbox"/>	High School Graduate <input type="checkbox"/>	License Graduate <input type="checkbox"/>	Postgraduates <input type="checkbox"/>

Monthly Revenues	0-1000 TRY <input type="checkbox"/>	1001-2000 TRY <input type="checkbox"/>	2001-3000 TRY <input type="checkbox"/>	3001-4000 TRY <input type="checkbox"/>	4000 TRY – More <input type="checkbox"/>
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1. Your teacher asked you to create a humorous cartoon to use Turkish words taken from foreign languages and not yet settled in our language. Draw a cartoon for this purpose.
2. You are asked to create two cartoons that reveal that sport is important to human life. The first of these cartoons will be prepared for girls in Africa and the other will be prepared for boys in your own country. Draw these two cartoons below.
3. Read the following text. After reading, draw a cartoon that addresses the event in the text.

Once upon a time, Nasreddin Hodja was going home with his son on the donkey. Time passed. A group of people got in front of them. One of them said, "Isn't it a shame Hodja, how can a donkey bear so much burden?," he said. Nasreddin Hodja took his son off the donkey and moved on. After a while, another man said, "Shame Nasreddin Hodja shame. Is the little boy forced to walk?," he said. Nasreddin Hodja put the boy on a donkey. Continued on their way. Time passed again and another man said, "That's it the children of this time, the old fathers walk but they ride the donkey.," he said. That word upset the boy and he gets off the donkey. Now they're both gone on foot. A chatty man said, "Look at the fools, the donkey is leading the way, they are walking on foot.," he said. Then Nasreddin Hodja said, "you see, my son, the mouth of the others are not a bag.," he said.

4. During the day we often encounter people who do not comply with traffic rules. Draw a cartoon that reveals the situation caused by people not following the rules even though they should.



5. Review the cartoon. Create a paragraph of text based on the Post-review cartoon.

Line: It is a one-dimensional structure that moves the eye in a specific area or around an area, dragging attention along a path or drawing it to a point. Horizontal lines give a feeling of stagnation. Vertical lines show strength, feel upward. Diagonal lines give a strong sense of movement and dynamism.

Shape: A line that connects to itself forms a shape. The figures are two-dimensional and can show the outlines of an object.

Light: It is the value that connects the parts between the light (bright) parts and the shaded (dark) parts of the objects in a precise transition.

6. Using the visual art elements and design principles given above, draw a cartoon on a subject you want.



7. Review the cartoon near. Identify the message the cartoon gives. You can also draw a cartoon with a similar message from the cartoon below.

8. What kind of caricature do you draw to enrich this poster when you are asked to make a banner suitable for the theme of Health and sport as a project task? Draw the cartoon you designed.

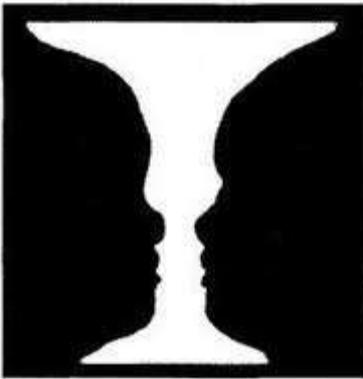
9. Plot a cartoon that reveals the event and situation that has attracted your attention recently.

10. You listen to "Mehmetçik" song evokes the feelings and thoughts you express by drawing a cartoon. Internet address of the song: <https://www.youtube.com/watch?v=YDWj9Dx3piA>

All bad habits begin first by being told what will happen once. So is smoking. For some, smoking; is to grow, to prove himself. The cigarette slowly drains its venom. You say "I'll quit if I want to.". You don't realize it, but now you're a prisoner of smoking.

11. Express the emotion and thought that the above text evokes in you by drawing cartoons.

12. In any period of your life, you can express the feelings and thoughts aroused by an event that you have witnessed or passed through your head by drawing a cartoon.



Shape-Ground Relationship

When you look at the picture near, do you see a vase or two people looking face-to-face? We perceive the basic stimulus that enters our perception field as "shape" and the environment that surrounds it as "ground".

13. Similarly, you create an example of the shape - ground relationship.

14. Consider yourself a candidate to be a school representative. Imagine designing banners to impress people. Draw a cartoon that states that the vast majority in the school want to elect you President, and that undecided students need to vote for you like the others if they want to be on the winning side.

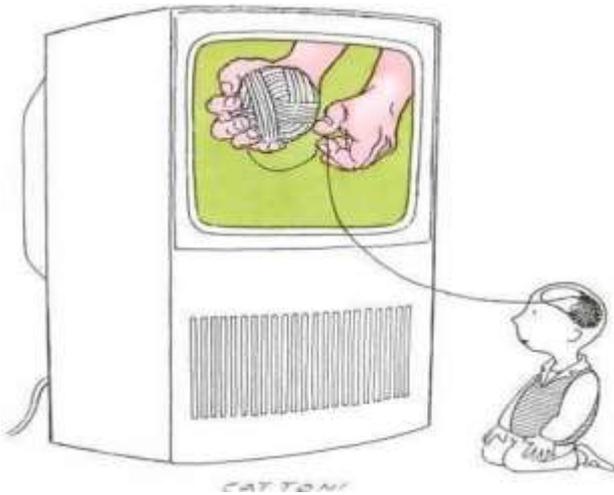


15. Above is a map showing the number of bookstores and book sales. According to the map, our province ranks fourth in terms of Afyonkarahisar bookstore and book sales. Eskişehir Bookstore, one of our neighboring provinces, ranks first in terms of book sales; Denizli, Burdur and Uşak bookstore ranks third in terms of book sales. Draw a cartoon that provides information about the ranking of Afyonkarahisar, Eskişehir, Denizli, Burdur and Uşak provinces in terms of bookstore and book sales.

16. The first of the healthy eating cartoons given below is taken from the Turkey addiction and struggle Education Program site and the other is taken from any website. Take advantage of these cartoons to draw a cartoon.



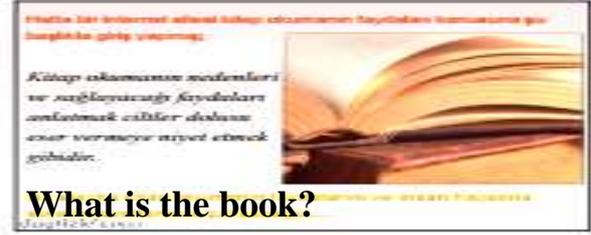
17. You are conducting a research on the rate of air pollution in Afyonkarahisar. During your research, you have received two pieces of information. Your father stated that there is very little air pollution in Afyonkarahisar. According to the latest report of the World Health Organization (who), the threshold values for air pollution in 6 cities of Turkey have been exceeded 4-5 times; Igdir, Batman, Afyon, Osmaniye, Gaziantep, Siirt inhale poison Ministry of Environment and Urban Planning “www.csb.gov.tr” you learned from your address. Drawing a cartoon with air pollution rate in Afyonkarahisar based on the information obtained during the research.



18. The cartoon given on the side was made by the world-famous cartoonist Cattoni. This cartoon about technology addiction has received awards and has been one of the best cartoons in the world. So much so that the country's president has even awarded Cattoni the Outstanding Service Medal for making the best cartoon that can be made about technology addiction. Asked about the reason for his success, Cattoni told reporters that while creating my cartoons I would not imitate anyone, what is already important is to be able to look at the same thing differently. And you draw a cartoon about technology addiction.

Depict the “importance of reading books” given below.

The Benefits of Reading Books Don't End Up Counting



B. Caricature Literacy Key To Scoring Skills In Caricature Creation

Criteria		Levels Of Success				Score
		Significant Lack of Performance (1)	Limited Performance to Improve (2)	Successful Performance (3)	Excellent Performance (4)	
1. Content Creation	1 Purpose-Built Cartoon Creation	She/He has not created cartoons in line with his purpose and need. The subject of the created cartoon is completely out of the main idea purpose and need.	She/He created cartoons in line with his purpose and need. The subject of the created cartoon partially coincide with the main idea purpose and need.	She/He created cartoons in line with his purpose and need. The subject of the created cartoon largely coincide the main idea with purpose and need.	She/He created cartoons in line with his purpose and need. The subject of the created cartoon coincide with the main idea and purpose.	
	2 Considering the Target Audience	It has never take into consideration the characteristics of the target audience (gender, age, community) when creating cartoon.	It partially took into account the characteristics of the identified target group (gender, age, community) in creating the cartoon.	It has largely taken into account the characteristics of the set identified target group (gender, age, community) when creating cartoon.	It has largely taken into account the characteristics of the set identified target group (gender, age, community) when creating cartoon.	
	3 Selecting the Appropriate Cartoon Type for the Specified Purpose	The type of the created cartoon and the purpose of creating the material do not coincide .	The type of created cartoon and the purpose of creating the material partially coincide .	The type of created cartoon and the purpose of creating the material largely coincide .	The type of created cartoon and the purpose of creating the material completely coincide .	

4	Using the Refraction Lines of the Cartoon	The Created cartoon in line with its purpose and the cartoon's refractive lines (humor, exaggeration, opposition) do not coincide.	The cartoon created in line with the purpose of the cartoon's refractive lines (humor, exaggeration, opposition) partially coincide .	The lines of the cartoon (humor, hyperbole, opposition) that are formed in line with the purpose of the cartoon coincide greatly.	The cartoon created in line with the purpose of the cartoon's refractive lines (humor, hyperbole, opposition) completely coincide .	
5	Creating Text Based on Cartoon	The text created is incompatible with the emotion and thought of the cartoon.	The text created is partially compatible with the emotion and thought of the cartoon.	The text created is largely in line with the emotion and thought of the cartoon.	The text created is entirely in line with the emotion and thought of the cartoon.	
6	Using Art Elements and Design Principles	She/He didn't apply art elements and design principles (line, shape, light) in the visual material he created.	She/He partially applied art elements and design principles (line, shape, light) in the visual material he created.	She/He largely applied art elements and design principles (line, shape, light) in the visual material he created.	She/He applied art elements and design principles (line, shape, light) in the visual material he created.	
7	Rearrange Cartoons	She/he could not structure the given cartoon and could not convey her/his emotions, thoughts, dreams and impressions.	By structuring the given cartoon, she/he partially successfully conveyed her/his emotions, thoughts, dreams and impressions.	By structuring the given cartoon, she/he has largely successfully conveyed her/his emotions, thoughts, dreams and impressions.	She/He successfully conveyed her/his emotions, thoughts, dreams and impressions by structuring the given cartoon.	
8	Creating Cartoons that Fit the Theme and Subject	She/He didn't consider the content and theme set in the cartoon production.	She/He partially took into account the content and theme set in the cartoon production.	She/He has largely taken into account the content and theme set in cartoon production.	She/He took into account the content and theme set in the cartoon production.	
9	Reflection on the Daily Cartoon	The cartoon is far from current, current quality.	The cartoon was created in part of a current, current nature.	The caricature is largely up-to-date, current in nature.	The cartoon is of a current, current nature.	
10	Cartooning What They Listen to	She/He could not caricature what he listened to the point that the subject matter would be the main idea.	She/He was able to partially caricature what she/he was listening to at a level that would put it as the main idea.	She/He was able to caricaturize what she/he was listening to at a level that would put it as the main idea.	She/He was able to caricature what she/he was listening to at a level that would reveal the subject as the main idea.	
11	Cartooning the Text She/He Read	She/He has not been able to caricature the text she/he has read at the level that would reveal the subject as the main idea.	She/He was able to partially caricature the text she/he was reading at a level that would reveal the subject as the main idea.	She/He was able to caricaturize the text he read to a great extent to present the subject as the main idea.	She/ He was able to caricature the text he read to the point that the subject was the main idea.	

	12	Cartooning Emotions, Thoughts, Dreams, Information and Impressions	The cartoon doesn't coincide with the given situation.	The cartoon partially coincides with the given case.	The cartoon largely coincides with the given situation.	The cartoon completely coincides with the given situation.	
	13	Recognize the Function of the Laws that Organize Perception	The cartoon it creates is not in accordance with the laws of perceptual organization (Figure-Ground relationship).	The cartoon it creates is partially in accordance with the laws of perceptual organization (Figure-Ground relationship).	The cartoon it creates is largely in accordance with the laws of perceptual organization (Figure-Ground relationship).	She/He created caricatures in accordance with the laws of perceptual organization (figure-ground relation).	
	14	Using Persuasion and Propaganda Techniques	She/He didn't appear in the caricature she/he created to the elements of persuasion or propaganda in achieving the stated purpose.	She/He appeared in the cartoon in which she/he formed an element of persuasion or propaganda in achieving the determined purpose.	She/He has appeared in a caricature in which she/he has formed several persuasions or elements of propaganda in achieving the stated goal.	She/He appeared in the cartoon in which she/he formed more than two elements of persuasion or propaganda in achieving the stated goal.	
Present valid and reliable information	15	Distinguishing Information and Interpretation	She/He was unable to set aside her/his personal opinion when creating a cartoon intended to convey information.	She/He partially set aside her/his personal opinion when creating cartoons intended to convey information.	She/He largely set aside her/his personal opinion when creating cartoons intended to convey information.	She/He set aside her/his personal opinion when creating cartoons for information transfer purposes.	
	16	Questioning the Accuracy of the Material It Creates	When creating the cartoon, she/he did not control the accuracy of the cartoon by studying other visual materials.	In creating the cartoon, she/he partially controlled the accuracy of the cartoon by studying other visual materials.	In creating the cartoon, she/he largely controlled the accuracy of the cartoon by studying other visual materials.	In creating the cartoon, she/he controlled the accuracy of the cartoon by studying other visual materials.	
	17	Questioning the Validity and Reliability of Visual Material	She/He didn't seek expert or scientific opinion in creating the cartoon, including information and analyses found in reference sources, scientific publications.	She/He sought expert and scientific opinion in part in creating the cartoon, including information and analyses found in reference sources, scientific publications.	She/He sought largely expert and scientific opinion in creating the cartoon, including information and analyses found in reference sources, scientific publications.	She/He sought expert and scientific opinion in creating the cartoon, including information and analyses found in reference sources, scientific publications.	
	18	Application of Ethical and Legal Principles When Creating Visual Material	She/He didn't specify citation information when creating and publishing the cartoons.	She/He partially cited citation information when creating and publishing the created cartoon.	She/He greatly cited citation information when creating and publishing the cartoon that was created.	She/He cited citation information when creating and publishing the created cartoon.	

Creating Effective Presentations	19	Choosing the Appropriate Visual Materials	She/He was unable to choose the cartoons that would enrich her/his presentation as content.	She/He chose in part the cartoons that would enrich her/his presentation as content.	She/He has largely chosen cartoons that will enrich her/his presentation as content.	She/He selected cartoons that would enrich her/his presentation as content.	

6. sınıf öğrencilerinin karikatür oluşturma becerilerinin değerlendirilmesine yönelik bir dereceli puanlama anahtarı çalışması

Öz

Araştırmada, 6. sınıf öğrencilerinin karikatür oluşturma süreçleri sonunda ortaya çıkardıkları ürünlerin değerlendirilmesinde kullanılacak “Karikatür Oluşturma Rubriği” nin (Analitik dereceli puanlama anahtarı) geliştirilmesi ve geçerlilik güvenilirlik çalışmalarının yapılması amaçlanmıştır.

Dereceli puanlama anahtarında yer alan ölçütler araştırmacı tarafından hazırlanan “Karikatür Okuryazarlığı Modülü”nden yararlanarak belirlenmiştir. Performans tanımlarının ardından çalışma grubu dışındaki başka bir gruba dereceli puanlama anahtarının geçerliğini arttırmak amacıyla pilot uygulama gerçekleştirilmiştir. Pilot uygulama karikatür oluşturma becerisine sahip ve çalışma grubu ile aynı sınıf düzeyinde yer alan altısı kız, biri erkek toplam yedi öğrenci ile gerçekleştirilmiştir. Pilot uygulamadan alınan dönütler doğrultusunda gereken düzeltmeler yapılarak dereceli puanlama anahtarının geçerlik ve güvenilirlik çalışmalarının yapılması aşamasına geçilmiştir.

Araştırmacı tarafından özel olarak geliştirilen, karikatür oluşturma becerisini değerlendirmeye yönelik rubriğin güvenilirliğine yönelik yürütülen uygulamadan elde edilen verilerin SPSS 18 programında analizleri yapılmıştır. Puanlama anahtarının güvenilirliği için iki farklı değerlendiricinin verdiği puanlar arasındaki tutarlılık incelenmiştir. Bu amaçla farklı değerlendiricilere göre dereceli puanlama anahtarından elde edilen toplam puanlar arasındaki tutarlılık için pearson momentler çarpım korelasyon katsayısı, her bir alt boyut için puanlamalar arası tutarlılık için ise pearson momentler çarpım korelasyon katsayısı formülü kullanılmıştır.

Sonuç olarak bu araştırmada karikatür oluşturma becerisini değerlendirmeye yönelik geliştirilen rubriğin 6.sınıf öğrencilerinin karikatür oluşturma çalışmalarını ölçme ve değerlendirilmede kullanılabileceği görülmüştür.

Anahtar sözcükler: Karikatür Okuryazarlığı, Karikatür Oluşturma, Rubrik/ Dereceli Puanlama Anahtarı

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