



**Open Access Journal, Available Online** 

## An Assessment of the *One Lecture-One Test* Learning Model by Journalism Teachers

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## Received: 06.10.2018 Accepted: 04.04.201 Published: June, 2019

*Abstract*: This article analyzes transcripts from a knowledgeable group that discoursed at length the *one lecture - one test* (OLOT) learning model – a system that requires students to write a short test for 10 to 20 minutes after *every* lecture, for a score that counts toward the overall grade. This model contrasts with the traditional system in higher institutions that set two or three tests and give one or a few assignments in a semester. Investigation of OLOT started with a one-year survey and three-year longitudinal assessment. It proceeds with this work and shows via a color graphic analysis that, though OLOT appears capable of promoting students' *attendance*, *concentration*, *interest*, and *participation* during lectures, this may not necessarily translate to better grades notwithstanding, the learning system should be given the benefit of the doubt given the significant showing of the four parameters.

*Keywords*: One lecture-one test, OLOT, teaching, learning, testwiseness, focus group, color graphics.

## Introduction

Teachers in institutions of higher learning are continually seeking ways to overturn the traditional pedagogical systems with new ones that can make their students stand out. One result of this move is the emergence of *One Lecture-One Test* (OLOT) - the learning model that requires a student to write a short

test of 10 to 20 minutes duration after every lecture, as a compulsory component continuous of the assessment and for a score that counts toward the overall grade. In OLOT, each test covers mainly the very core area of the module that the students have been taught during the lecture. Students are advised to write between one and three pages of paper and warned to imbibe the economy of language which enables them to write the test in a few but meaningful words. A script should take only between one and five minutes to mark.

OLOT is conjectured in some ways may depend that more on and knowledgeable experienced instructors than freshers, as newly qualified teachers (NQTs) will need mentoring to develop the necessary skills (Avalos, 2011; Aspfors & Fransson, 2015) needed to affirm those conjectures. One is that it could improve students' attendance as well as their concentration in class. OLOT brings every student to the reality of what he or she has just learned in class. A student is well aware that he or she must write a short test to test his or her understanding of the lecture. The tendency exists students will take interest in what is being taught if they know that test is coming after the lecture (Huff, 1961; Kelley & Zarembka, 1968: Erickson, 1972: Ferguson, 1974; Duchastel, 1981;

Williams, et al. 1985; Wyatt, 1992; Schönwetter, Clifton & Perry, 2002). The interest can manifest in the higher number of questions they ask in the areas they do not understand as the lecture progresses than when there is no imminent test.

Another area OLOT mav be appreciated in is test anxiety. The conventional test system encourages test nervousness in students and *most* instructors are familiar with this experience (Szafran, 1981, p.31) to such an extent that special care centers are set up to help students overcome the threat. With OLOT, anxiety is converted to expectation test-writing since becomes а while tradition expectation transposes appreciation and to ultimately positive to test performance, especially for the smart and disciplined student.

OLOT is also estimated to be a promoter of stimulated recall (Bloom, 1953; 1956) by minimizing retrieval or encoding failure since the test written focuses attention to only the core area of the lecture. This is in contrast with the traditional two or three-test system where students write a test that variegated topics. involves Answering questions of different shades means that the conventional test system can proactively or retroactively promote knowledge interference. Proactive and retroactive components are upshots

of the interference theory, which opines basically that some memories do interfere with other memories Proactive interference occurs when an old memory makes it difficult or even impossible to remember a new while memorv retroactive interference is made manifest when new information interferes with one's ability to recall or remember a previously learned information. It might be a good idea if the traditional system is limited to the time of examination when students answer questions on various topics while OLOT takes care of continuous assessments.

Students' note-taking is related to test performance (Nye, Crooks, Powley & Trip, 1984) and it wouldn't make too much difference if the activity was acquired through some informal learning or deliberate efforts. The potential also exists for OLOT to make students improve their note-taking in terms of speed and stimulate the encoding processes within the learner (Carrier & Titus, system 1981: 386). The can eliminate the refusal to take notes owing to the certainty of an impending test, thereby minimizing the challenge of learners' inactivity during lectures. Some writers (Reid, 1948; Nolan, 1974; Dorn, 1987; Arias & Walker, 2004; McDougall & Granby, 1996; Saroyan & Snell, 1997) have implied or noted that instructors ask questions when

during lectures the subject matter will normally involve only those students who volunteer to answer. This make non-volunteers can unaccountable. OLOT, on the other hand, is primed to get most or all students busy via note-taking and make them accountable concerning a test close by. Furthermore, OLOT offers an instantaneous dimension to class preparation as the students know that a test is inevitable in a lecture unlike the homework or assignments (Sprechera & Pocs, 1987:268) which prepares students for the next lecture.

## **OLOT and Test Wiseness**

Test-wiseness refers to the skill that a student or test writer acquires from the biotic elements – teacher, fellow students, the student and other reasoned elements and the abiotic components test structure. \_ characteristics, clues, test situation, etc. of a test ecosystem and then create clues that enable him or her answer the question correctly (Millman, Bishop & Ebel, 1965; Sarnacki, 1979; Lange, 1981). For instance, a smart student could study the structure and characteristics of the test, test situation, teacher's body language, or any other relevant appurtenances, environmental articulate all these into a technique that makes him or her answers the test questions correctly. OLOT is

being conjectured to be a driver of test wiseness.

Millman, Bishop, and Ebel (1965) present a taxonomy of elements that independent of the test are constructor and those that depend on it. The independent elements include the examinee's time using, error avoiding, guessing and deductive reasoning strategies while dependent ones are intent consideration and cue-using strategies. Both of these the student can take advantage of to create the motivations that can make him or her answer the questions correctly. The motivation in the case of OLOT is that it operates an environment where students know that not writing the test at all or not writing it well portends failure and reduces their chances of lining up with other students at the time of graduation.

OLOT should not be misinterpreted for the familiar session conducted by a teacher who asks questions after a lecture to know if a student understands what he or she has just learned from that lecture. The OLOT model's mandatory test is deemed instrumental not only to a student's grade but also to graduation.

In spite of the growing adoption of the system by individual lecturers and teachers in several emerging economies including India, Nigeria, Indonesia and Kenya, OLOT is not conceptualized as a formalism yet in most tertiary institutions while instructors in universities in the more advanced countries of Europe and North America are rarely seen using it. Using a color graphic technique, analysis this work projects the views of a group of knowledgeable persons which give the features that aid the understanding as well as provide insight that might be needed for decision-making prospective by adopters of the system.

## Preliminary Investigations and Problem of the Study

In 2012, OLOT was put to the test to determine how it shaped students' performance, using grade as the criterion variable and – attendance, interest, participation, concentration in class as predictors (Omojola, 2014: Komolafe et al. 2018: Odiboh al. 2017). The study was et conducted in Covenant University, Nigeria for one academic session in four courses in journalism and mass communication disciplines. The descriptive showed that the students performed better in the four areas with scores ranging from 15 to 30 percent, though with a marginal improvement in grades, over the traditional system which sets one or two tests and a few assignments in a semester.

The results of the survey were presented in 2014 at the 4th annual International Technology, Education and Development Conference

(INTED) held in Valencia, Spain. After a short time of accolades for reported improvements the in students' performance, two major issues were raised as part of the critique to make the system more attractive. First, was that the single survey conducted would need to be corroborated by a longitudinal study. Repeated measures were necessary to understand the change dynamics and causal inferences as well as the teacher-student relationship that develops from a sustained teacherstudent interfacing, as noted by Pennings, et al. (2014). Second, was that the opinions of lecturers should sought determine be to how universally workable the system could be.

A longitudinal study spanning three academic sessions - 2015/2016. 2016/2017 and 2017/2018 academic sessions - was conducted (Omojola, et al, 2018; Folayan, et al, 2018). The paired samples tests of the traditional test system with OLOT showed a preponderance of the latter in the mean distribution of the four predictor variables with varying dispersion values though. This improvement was replicated in grades. albeit marginally. The grading sequence in place at the university was A=5.00, B=4.00-4.99, C=3.00-3.99, D=2.00-2.99, and F=0.00, excluding the E grade which logically should have been 1.00-1.99 if it was included. It turned out that the distance between two grades obfuscated the improvement seen in the OLOT grades, thereby rendering it inappreciable. For instance, a mean score of 2.90 in OLOT obviously better than 2.10 recorded in the traditional system, would not make a difference as both 2.90 and 2.10 are domiciled in the same grade of D which is 2.00-2.99!

## Objective and Rationale for the Study

The objective of the study is to determine, from the discussion of a knowledgeable group, how students could perform under the OLOT system in terms of attendance, interest. participation, and *concentration* as predictors and how these predictors might affect the criterion variable grade. The input of lecturers, who form the core of the group that discussed in this study, cannot be overemphasized as their opinions constitute crucial а component for the work to be credible. The insight generated from their discussion supplied the information on the features of the system since literature is not visible on it yet. This insight could also provide a prospective adopter the basis on which to adopt or reject it.

## The Focus Group Discussion at the 4<sup>th</sup> C-ICADI Conference

The 4<sup>th</sup> International Conference on African Development Issues (C-ICADI) was held in Covenant

University, Ota, Nigeria from October 22<sup>nd</sup> to 24<sup>th</sup> 2018 with the "The Challenge theme: of Driving Leadership: Africa's Future." The conference featured most participants from Africa and had as its keynote speaker the former President of Zambia. Jovce Banda. It discussed several issues including politics, education, economy and other areas of need in Africa. One of the issues raised at the conference on the importance of teaching and learning elicited the composition of a focus group that discussed for one hour and a half in a break-out session.

The group comprised six university staff, including five lecturers with experience in journalism teaching and one administrator. All of them have taught journalism and media communication Two were from Nigeria (Q1, Q2), one from South Africa (Q3), one from Ghana (Q4), one from Zambia (Q5) and one from Sierra Leone (Q6). Impressively, the discussants were equi-gendered and all except one female had PhDs, meaning they should be knowledgeable to an appreciable level about teaching and learning. They claimed authoritatively they were conversant with the definitions of the variables - attendance. participation, interest. and concentration. The moderator asked for their opinions on how they think the four parameters could pan out in OLOT. Though they were allowed to expatiate on their points, they followed an instruction that they should encapsulate each point in a simple sentence or even phrase for easy capture in the transcripts. They were to start their discussion of each parameter by saying if OLOT could promote it or not. The most visible keyword in each view expressed is identified to enable proper categorization of that opinion.

## A Note on the Color Analysis Technique

The use of visual images instead of words and numbers for analysis is not visible enough yet in focus group research, unlike words. To this end. graphic analysis a technique (Omojola, 2016; Omojola, Odiboh & Amodu, 2018) has been developed featuring the use of symbols and colors to depict opinions and the strength of those opinions. In this work, I use colors, tints, and tones to depict the opinions of the discussants. This color technique can help analysts and their audience to determine visually what transpired in the discussion prima facie. The cognitive ability to decipher this depiction is considered automatic. or at least not difficult, to enable the viewer to figure it out. In this work, the opinion of a discussant that is similar or the same as another is marked the same color. Figure 1

# *Oladokun Omojola* below identifies the colors used for



Figure 1: 33 Colors for analysis identified

## **Discussion of Item 1: Attendance**

## Q1 Submission

a. When I called for a test, attendance was usually between 95 and 100 percent, Therefore, OLOT should promote attendance. *Grape* 

b. Genuine reasons such as death can undermine attendance in OLOT. *Turquoise* 

c. Students do miss class owing to social reasons such as attending sibling's weddings, birthdays, etc. OLOT can minimize this. *Sea Green* 

## Q2 Submission

- a. I believe OLOT can promote attendance. *Grape*
- b. Some students don't respect lecturers OLOT or no OLOT, they still stay away. *Mint Green*
- c. Some students are very lazy. With OLOT they will still miss their classes. Army Green
- d. A bad company could make student miss lecturers OLOT notwithstanding. *Blue*
- e. Some students are motivated by the desire to achieve. With OLOT they can do more. *Khaki*
- Q3 Submission
  - a. OLOT sounds like a novel way of learning. It could boost students' attendance. *Grape*
- Q4 Submission
  - a. No student wants to miss a test if it counts toward their graduation. *Grape*
  - b. From experience, I have understood that many students

don't want to miss tests because they target higher grades. OLOT wouldn't make any difference to that. *Gold* 

c. I concur that bad friends can abet a student's absence in class. *Blue* 

## Q5 Submission

- a. I predict OLOT can increase attendance by 15 percent or more. *Grape*
- b. We should note that a student who has discipline as their core value would not want to miss a lecture, OLOT or no OLOT. *Walnut*
- c. Poor student/teacher relationship can undermine students' attendance in OLOT. *Neon Red*

## Q6 Submission

- a. OLOT can be used as a strategy to boost students' attendance where it is low. *Grape*
- b. Truancy is some students' way of life simply because they are undisciplined. *Walnut*

c. OLOT can promote the desire to not repeat a class, thereby enhancing attendance. *Violet*.

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Att.	a	b	с	d	e	f
Q1						
Q2						
Q3						
Q4						
Q5						
Q6						

Figure 2: Opinions representation – Attendance

Figure 2 shows that the six discussants expressed 18 opinions on attendance. It shows six grapes, meaning all agree that OLOT can promote students' interest during lectures; two walnuts and two blues indicating respectively that discipline and a bad company can attendance. Other affect colors singles with appear as each indicating one variable. They are teacher-student red neon relationship; gold - higher grades; turquoise - death; sea green attending a social function; army

green – laziness; khaki – a desire for achievement, violet – desire to not repeat a class and mint green – respect for lecturers.

## **Discussion of Item 2: Interest**

## Q1 Submission

- a. OLOT can promote the interest of students during lectures. *Grape*
- b. If a lecturer is not a good communicator, a student will lose interest and OLOT's purpose will be defeated. *Brown*

- c. OLOT depends on several factors that have to do with a teacher's performance. *Yellow*
- d. OLOT will encourage or compel students to take notes during lectures. *Crimson*
- e. In spite of OLOT, students can lose interest during a lecture if the environment of learning is exacting and unconducive. We should not overrate OLOT in this respect. *Black*
- f. If a student is disciplined, he or she can develop interest in class lectures. *Walnut*

## Q2 Submission

- a. I believe in the potential of OLOT to promote students' interest in learning during lectures but I can't overstretch this point because I have not practiced it with students. *Grape*
- b. If audio-visual learning tools are adequate, OLOT can deliver well and generate interest. *Red*
- c. A distinguished professor will attract more interest in students because he commands respect. *Mint Green*
- d. The fear of failure is always a student's interest booster during lectures. *Green*
- Q3 Submission

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- a. Just like I said in the case of attendance I submit that OLOT should increase students' interest during lectures. *Grape*
- b. A lecturer's instructional approach matters to students' interest, OLOT or no OLOT. *Cyan*

## Q4 Submission

- a. OLOT can pull an edge over the conventional system in terms of student's interest. *Grape*
- b. I know inadequate physical activity can reduce students' interest during lectures. *Magenta*
- Q5 Submission
  - a. The interest of students during lectures should improve with OLOT. *Grape*
  - b. I support an earlier submission that note-taking by students will increase to aid revision before the test. *Crimson*
  - c. I support the point that interest may be higher with professors for respect. *Mint Green*
  - d. Teacher's ability to talk well will increase students' interest, OLOT notwithstanding. *Brown*
  - e. The way teachers gesticulate and emote to students can ginger up their interest. *Orange*

### Q6 Submission

- a. OLOT can enhance interest. *Grape*
- b. But this is not automatic. Some things must be in place

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for the enhancement to happen. *Dark Brown* 

c. Interest will depend mainly on how a teacher handles his class, especially concerning talking. *Brown* 



Figure 3: Opinions representation – Interest

In Figure 3, 21 opinions were expressed. The 6 grapes mean that all discussants think OLOT can promote interest. Three browns and two mint greens mean respectively that lecturers' communication and students' respect for their teachers matter to OLOT. Other colors with their corresponding variables appear as singles. They are: red - audiovisual learning tools; magenta inadequate physical activity, orange teacher's gesticulation and emotions, black conducive environment, learning cyan instructional approach, dark brown putting things in place, crimson -

note-taking, green – fear of failure, yellow – efficiency/teacher's performance, and walnut – discipline.

## **Discussion of Item 3: Participation** *Q1 Submission*

- a. No harm in saying that OLOT can enhance the participation of students during a lecture. *Grape*
- b. We should realize that there is a difference between participating to pass a compulsory test that is only one hour away and

participating to gain knowledge. *Ice Blue* 

c. OLOT or conventional, the participation of students is limited by sickness. *Olive* 

## Q2 Submission

- a. Students are more likely going to ask questions in OLOT than where there is no test. *Grape*
- b. In spite of OLOT, student traits can limit students' participation. For example, a shy student may not want to ask a question in class. *Purple*
- c. If a student is sick, he or she may not function in OLOT. *Olive*
- d. "Well done, "thank you, etc." do encourage students to participate more. *Deep Rose*
- e. Teacher's performance would enhance students' participation. *Yellow*

## Q3 Submission

- a. OLOT can enhance a student's participation. *Grape*
- b. OLOT could elicit group discussion. For instance, a student might ask another student: "Do you understand what the lecturer has just explained? *Olive Drab*
- c. Cracking nice jokes to start an OLOT class will make students participate. *White*
- d. What happens where a student is mentally deranged. Can

OLOT save that situation? *Olive* 

- Q4 Submission
  - a. I believe OLOT can enhance participation among slow and average learners. *Grape*
  - b. Praising students, showering them encomiums can increase OLOT participation. *Deep Rose*
  - c. OLOT can elicit group discussion. An impending test will make a student seek a friend's help. *Olive Drab*
  - d. Students facing disciplinary action will find it difficult to participate during lectures. *Sand*
  - e. Note-taking supports students' encoding process. OLOT encourages this. *Crimson*
  - f. Can promising students' gifts [not just encomiums] increase their participation? *Pink*
- Q5 Submission
  - a. I agree with the previous speaker OLOT can provoke participation during lectures. *Grape*
  - b. In OLOT, teaching should make students participate cooperatively rather than compete. *Sky Blue*
  - c. Fear can affect students in OLOT, e.g. fear of been jeered at, of lack of making mistakes, of teacher correction and so forth. *Green*

d. Fluency and grammar problems can minimize participation in an OLOT class. *Brown* 

## Q6 Submission

- a. I don't doubt that OLOT has the potential to enhance participation during lectures. *Grape*
- b. Students will likely see the need to consult one another during lecturers especially where the teacher is less approachable. *Olive Drab*

- c. Fear can hinder students' participation if he is less self-efficacious. *Green*
- d. Some students participate to show off, OLOT or no OLOT. *Peach*
- e. OLOT can realize its student's participation if a teacher starts the lecture with anecdotes. *White*
- f. Can a student who is broke and thinking about how he will eat participate really in OLOT? *Chartreuse*



Figure 4: Opinions representation – Participation

Figure 4 shows that 28 opinions were expressed regarding participation. Six grapes are in favor of participation while olive and olive drab claim three times each that sickness and student's consultation with one another, respectively, are OLOT's factors. White, green and deep rose opines twice each respectively that starting a lecture anecdotally, the problem of fear and saying thank you to students are

OLOT variables. Other variables came up as singles: They are yellow - teacher's performance, peach participation to show off, chartreuse - hungry/broke student, brown teacher's communication, sky blue cooperation student's rather competition, ice blue - options of passing test and gaining knowledge, crimson – note-taking, sand students facing disciplinary action, pink – giving out gift and purple – shy student.

## Solving the Problem of Color Scarcity

At this point, all the 33 colors listed in Figure 1 except one – Dusty plum, have been engaged to represent opinions while there are still many opinions left to be depicted. This challenge can be resolved by simply creating a new set of colors. Other colors exist that can be created. They are indigo, wheel blue, ultra-marine, ivory, azure, teal, and several mauve. others. But what if no colors exist again to be listed? The challenge can still be resolved by creating tint versions of the original colors to represent the remaining opinions. In the figure below, 60 and 20 percent tint versions of four of the 33 original colors in Figure 1 were created. In this case, the full hue of violet can be named Violet<sup>3</sup>, the 60 percent tint version tagged Violet<sup>2</sup> while the 20 percent version can be marked Violet<sup>1</sup> as shown in Figure 5 below



Figure 5: Colors and 60/20 per cent tint versions

Another challenge may yet arise: How do all these colors appear if this document is printed in black and white. This can be resolved by simply marking colors with one or two letters (preferably the first two letters) of the names of those colors. For instance, Grape can be marked "Gr". Therefore, Figure 5 and Figure 1 above become as shown in Figure 6 below.

	Colors an	d their tints i	n black and	white		
V3 V2 V1 Violet		p3 Dp2 Dusty Ph	Lv3 Lv2 Lv1 Light Violet			
Nr3 Nr2 Neon Red	NH 3	53 82 Sand	81	W3 W2 W1 Walnut		
P3 P2 Peach	P1 3	Gold	G1	Кр	K2 Khaki	К1
C3 C2 Chartreus	C1 ^	a3 Ag2 Army Gre		Mg3	Mg2 Mint Green	Mg1
127511 II 12 12 12 1	Colors Ide	ntified in	Black an	d White		
Gr Grape		Br Bro	OI Olive			
T Turc	quoise	Y yello	Pu Purple			
Sg Sea	Green	Gr Grin	nson	Dr Deep Ros		Rose
Mg Mint	Green	B blac	k	Od Olive Drai		Drab
Ag Arm	y Green	R Red	£	W White		e
B Blu	•	Gr Gree	m	P Peach		sh
K Kha	aki	Cy Cya	n	Pi Pink		<
G Go	ld	M Mag	enta	s Sand		d
wn Wal	nut	o Oran	nge	Sb Sky Blue		Blue
Nr Neo	on Red	Db Darl	Brown	с	Chart	reuse
V Vio	let	to Ice	Blue	Dp	Dust	y Plun

Figure 6: Colors and 60/20 percent tint versions in black and white

## Discussion of Item 4: Concentration

## Q1 Submission

- a. I don't doubt that OLOT can promote concentration during a lecture. *Grape*
- b. Inconvenient lecture arena will hamper concentration even in an OLOT system. *Black*
- c. A student can develop the capacity for concentration

overtime in OLOT and make it a habit. *Dusty Plum* 

- d. Seating positions do affect concentration OLOT or no OLOT. Students in the front seats concentrate more than those at the back. *Violet*<sup>2</sup>
- e. Overloading students with non-academic matters can reduce concentration but OLOT can assuage that. Neon  $Red^2$
- f. Stress trouble students these days. Stress can minimize concentration in OLOT. *Peach*<sup>2</sup>

Q2 Submission

- a. OLOT can promote students' concentration in class. *Grape*
- b. Poor ventilation and lighting will hinder concentration in class even if it is OLOT. *Black*
- c. The teacher's presentation style, i.e. gesticulation, etc. can affect concentration in OLOT. *Orange*
- d. I also agree excess workload will hamper a student's concentration in OLOT. *Neon Red*<sup>2</sup>

## Q3 Submission

- a. OLOT can promote concentration. Maybe not all students, but at least a few. *Grape*
- b. Hunger and poor feeding won't make a student

concentrate in spite of OLOT. *Chartreuse* 

- c. Concentration can be developed over time with OLOT. Dusty Plum
- d. A sick student cannot concentrate even in OLOT. *Olive*

## Q4 Submission

- a. OLOT holds great promises in terms of making students concentrate in class. *Grape*
- b. But the conducive environment is necessary to make it realize its potential. *Black*
- c. Hormonal changes in the female will reduce concentration in OLOT. This is natural. *Chartreuse*<sup>2</sup>
- Q5 Submission
  - a. OLOT is a possible promoter of a student's focus or concentration during lectures. *Grape*
  - b. OLOT is outstanding. It effectively shuts out the problem of procrastination. *Dusty Plum*<sup>2</sup>
  - c. OLOT notwithstanding, discomfort in a class environment won't allow concentration. *Black*
- Q6 Submission
  - a. Don't call me a Doubting Thomas. If OLOT can improve concentration, that word "possibility" also means
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it may not be so. My submission is that it may not be so.  $Sand^2$ 

b. OLOT or no OLOT, paying attention in class involves

both the biotic and abiotic factors. [Biotic = human elements, abiotic = prevailing situations and circumstances]  $Gold^2$ 



Figure 7: Opinions representation – Concentration

Figure 7 shows 22 opinions and breaks the initial all-grape sequence of the previous three parameters by showing five grapes and Sand<sup>2</sup>, meaning that all discussants agreed that OLOT could promote students' concentration except one who doubted that. Four blacks are saying the harsh environment is an OLOT variable, while grape look-alike color, dusty plum, shows in two each claiming places. that psychological issues can influence OLOT. Neon  $\text{Red}^2$  also shows in two places with each saying that overloading students with nonacademic matters can influence OLOT. Eight other colors appear singly each with is OLOT variable. They are olive – sickness, chartreuse - hungry students, chartreuse<sup>2</sup> hormonal changes, orange teacher's gesticulation, violet<sup>2</sup> seating position, peach<sup>2</sup> – stress, and  $gold^2$  – biotic and abiotic and dusty  $plum^2 - procrastination.$ 

## **Discussion of Item 5: Grade**

## Q1 Submission

- a. The four parameters may happen and still not translate to better grades. *Army Green*<sup>2</sup>
- But if OLOT helps in these four areas, then it is worth trying. *Light Violet*<sup>2</sup>

## Q2 Submission

- a. Other factors influence grades. The four OLOT parameters are not enough. *Army Green*<sup>2</sup>
- b. Just like my colleague said, it is worth being put to the test. *Light Violet*<sup>2</sup>

## Q3 Submission

- a. OLOT parameters are not enough to produce better grades. Army Green<sup>2</sup>
- b. The test wiseness abilities, which these four parameters do not relate with, go a long way in influencing scores or grades. *Walnut*<sup>2</sup>

## Q4 Submission

a. These four OLOT parameters have the potential to make students have better grades if combined. *Khaki*<sup>2</sup>

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- b. If producing better grade is the reason for floating OLOT, then give it a shot. *Light Violet*<sup>2</sup>
- c. If we agree that OLOT can make students improve in these four areas, I think it is illogical to claim they don't promote better scores. *Mint*  $Green^2$

## Q5 Submission

- a. The four parameters are not strong enough to influence grades substantially. *Army Green*<sup>2</sup>
- b. Whatever positive influence they have in terms of grade can easily be wiped off by the way the teacher scores a test. *Violet1*
- c. On the whole, I agree that OLOT is not a bad idea. *Light Violet*<sup>2</sup>
- Q6 Submission
  - a. That OLOT can produce better grades via these four parameters is plausible rather than possible. *Army Green*<sup>2</sup>
  - b. Whatever the situation is, I encourage lecturers around the world to give it a try. *Light Violet*<sup>2</sup>

Grade	a	b	с	d	е	f
Q1	Ag2	Lv2				
Q2	Ag2	Lv2				
Q3	Ag2	W2				
Q4	К2	Lv2	Mg2			
Q5	Ag1	V1	Lv2			
Q6	Ag2	Lv2				

Figure 8: Opinions representation – Grades

Figure 8 displays the newly added 14 colors. Four opinions in army green<sup>2</sup> say the four parameters are not enough to boost grades while Khaki<sup>2</sup>, showing up once, says otherwise. Discussant Q5, in army green<sup>2</sup>, says that a consequent positive grade from the four parameters, though sounds nice, may not be feasible. Five discussants. each appearing as light violet<sup>2</sup>, say, in any case, the OLOT system should be given a benefit of the doubt. Two of them give the reason for disagreeing. Q3, appearing as walnut<sup>2</sup>, OLOT does not take into cognizance the issue of test wiseness

while Q5 appearing as Violet<sup>1</sup> says the teacher's scoring style can easily wipe off whatever positive contribution the four parameters have to grade. Q4, showing up as mint green<sup>2</sup>, differs. Mint green<sup>2</sup> says, however, that it is oxymoronic to claim that the for parameters are significant contributors to OLOT but not grade enhancer.

## Discussion

The group discussed attendance, interest, participation, concentration and how they relate to grade in the OLOT system. The color analysis enables quick, prima facie determination of data generated from

the discussion. A total of 69 colors (Figure 1 and Figure 5) were generated of which 46 were used. Figure 9 shows that a total of 90 opinions were expressed, indicating that some colors emerged more than once. When the 14 in Figure 8 (on grade) are added, they become 104.

participation variable The was discussed most with 28 colors. followed by concentration and interest with 22 each and attendance with 18. This suggests that OLOT robust enjoyed а discussion. implying that it generated interest amongst the discussants.



Figure 9: Opinion colors combined for attention, interest, participation and concentration variables

Of the 90, gray, the most popular color, carries 23 opinions that saw OLOT in a good light with the only discussant - sand<sup>2</sup> - expressing her reservation. Next is black, which carries five analogous views on how harsh environment influences OLOT while brown and olive follow, each

comparable opinions. with four opinions Their are teacher's communication students' and sickness respectively. The next most prevalent are colors that carry 3 similar views each. The colors with their respective views are olive drab - student's consultation with one

another in class, crimson – notetaking, walnut – student discipline, green - fear and mint green – respect for professors.

The next set of colors in the order of significance carries two opinions each. These include white – starting lecture with jokes and anecdotes, dusty plum – developing overtime, orange – teacher's posture and gesticulation, blue – bad company, yellow – teacher's performance, chartreuse – hungry students, deep rose – pouring encomiums on students, and neon red<sup>2</sup> – excess workload.

The remaining colors carry one opinion each. Each of these opinions was expressed to be a variable that could influence the OLOT system. and their corresponding These opinions are: army green - laziness issues. chartreuse<sup>2</sup> – hormonal changes, gold - targeting higher grades, gold<sup>2</sup> – biotic and biotic factors, peach - showing off, peach<sup>2</sup> - stress, violet<sup>2</sup> - sitting in the front, dusty plum<sup>2</sup> – procrastination, neon red – friendly teachers, sea green – attending social gatherings, sky blue - participating cooperatively, ice difference between blue \_ participating for the test or for knowledge, dark brown - some things being in place, pink – giving out gifts, magenta - inadequate physical activity, cyan - lecturer's instructional approach, sand disciplinary actions, red – learning tools, turquoise - death, khaki – desire to achieve and purple – students straits including shyness.

the results from If the four opinions predictors' 90 are juxtaposed with the 14 on the criterion grade (Figure 8), a surprise emerges. Five of the six discussants agree that the OLOT system has the potential and the capacity to improve the performance of students during lectures but reject astoundingly that they lead to better grades. O4 ends her contribution with a mild protest: "If we agree that OLOT can make students improve in these four areas, I think it is illogical to claim [that] they don't promote better scores." One fact is, however, universal among the discussants: OLOT may not or may not be able to produce better grades in students, but it is worth putting to the test because of its ability to influence students' attendance, interest, participation, and concentration in class in some way.

## Conclusion

Results from a previous study conducted for one year showed OLOT to be a valuable learning system in terms of the four parameters though it showed a marginal improvement in grades. The longitudinal study of three years validated this outcome. The analysis of the focus group transcripts has also proved that OLOT is useful,

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though less significant concerning grade. The three results are not distant from one another – perhaps the reason why it should be given

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the benefit of the doubt by prospective adopters as suggested by the discussants.

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