



# Effect of Colour and Music

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## Introduction:

Color is an important factor in the physical learning environment and is a major element in interior design that impacts student achievement, as well as teacher effectiveness and staff efficiency. Research has demonstrated that specific colors and patterns directly influence the health, morale, emotions, behavior, and performance of learners, depending on the individual's culture, age, gender, and developmental level, the subject being studied, and the activity being conducted.\*

Color is part of a haptic environment. A haptic environment is the architectural integration of artistic experience, function, and technology to derive a meaningful perception. Color, in addition to interior form, space, light, and texture, also is a major design element that can be used to create a an enriched learning environment.



## Research Design

The researcher used experimental field, the study utilized O'level students(n=72) from the school this group of students was selected based on their academic and social economic diversity. The student were mostly from urban communities and represented a cross section of the school community. There was some ethnic and social diversity however the class could be described as homogeneous.

To begin with this study the researchers performed a three way test on O'level students to see if color and music could help in memorizing vocabulary words. The students were divided into three groups. Each group was given three tests pretest, a posttest, and a test a week after the first two test. All of these test were identical. Group one was read the colored word with slow music in the background they were also asked to imagine the word. Group two was read the same colored words also with slow music in the background, group two was not asked to imagine the word . group three was only read uncolored word (black and white) not given any background music and not asked to imagine the word (this was a control group)



## Results:

The result from the first two test shows that group 1 and 2 had much better scores than group 3. The results from the third test, a week later showed that group 1 performed much better than group 2 and 3 however simply using music and color while learning does not absolutely guarantee recall but can possibly improve it. background color and music In itself is not a part of learning process, but it does not inter into memory along with the information learned. Recall is better when the color and same music used for learning during recall.

CA	Associative
CI	Involvement
CE	Enjoyment
CP	Physical
CC	Cognitive

PA	BLUE
PI	GREEN
PE	YELLOW
PP	BLACK AND WHITE
PC	RED

CLASTST	Color and music and asked to imagine the word
POPTST	Color and music and not asked to imagine the word
CONTST	No music and color and not asked to imagine the word

	DR	Sum of squares	Mean square		
regression	06	152.75845	25.459794		
Residual	42	123.48645	2.94015		
R square=5529		F=8.65932	Sig f <0001		
Variable	B	SEB	Beta	t	Sig t
CONTST	-.694126	-.108881	.715638	6.375	.0000
CI	.0380022	-.022374	-.199713	-1.699	0.966
CC	-.007180	-.013090	-.077043	-.549	.5862
CP	-.002731	-	-.018487	-.114	.9097
		.0239838			
CE	-.008017	-.019952	.077544	.402	.6899
CA	-.028530	-.023452	.237064	1.217	.2306
Constant	4777199	-.200605			

**Conclusions:** According to the findings from the statistics shows that color and music has statistically significant to the effects on learning process this is because most of the people in the world today color and music have a certain reaction on them for example color and music are used to alter moods, attitudes and behaviors. The most important on the color and music is using repetition of colors and music may enhance music in nursing home residents had increased reading comprehension when colors and music are used together

Communication comes in many ways but music and colors has the ability to instantly convey the meaning and message before the human race. Learnt to appreciate the finer aesthetics of colors and music we had more practical reasons to communicate with colors and music thus why most of companies has colors. For example red determine coca cola brand or Zain and Vodacom, in music for example NOKIA has a special ring tone which are found on their original new brand this tone communicate before the human race that its original brand from NOKIA companies on the side of music the psychologist christopher chabris said "it take away from other kind of interaction that might be beneficial for children, such as playing with them and keeping them engaged via social activity"

When discussing color experiences in terms of the physical reaction of blood pressure, eyestrain and brain development, the power and importance of a well-designed environment crosses cultural and personal barriers. It does not cancel the importance.

Further study by Antonio F Torrice resulted in his thesis that specific colors impact certain physical system in the human body. In Torrice's study he proposed that the following system are influenced by the particular hues motor skill activity , red circulatory system- orange, cardiopulmonary, yellow, speech skill activity- green eyes, ears and nose – blue, non verbal activity- violet.

The analysis of our biological reactions that often simultaneously manifest themselves. The psychological reaction to color are particularly apparent in the qualitative descriptions (anxiety, aggression, sadness, quite) offered in color analysis. Colors demonstrated effectiveness on improving students attention span as well as both student and teacher sense of time is a further reason color can increase the productivity in classroom

In future time, color we are now using in very positive way again. Business are accepting that their employees may work better when given a certain environment and hospitals and prison are also becoming aware of the effect that the color around them can have on patients and prisoners respectively paint companies have introduces new color cards with the therapeutic aspects of colors in mind. Cosmetics companies too have color therapy ranges include in their products. Color has a great deal to offer us and can be found all around us in nature we need so that we can truly benefit from nature's gift so that color becomes a way of life not just a therapy.

## References:

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 Hathaway, w(1987) "*light, Colour and Air Quality*: Important element of the learning Enviroment.

## Further information:

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