

CREATING AN OPTICAL ILLUSIONS

This project demonstrates your use of computer skills. You will be creating an optical illusion of your picture by pixelation by using Microsoft Excel and Adobe Photoshop program. It is essential to start working right away on your picture to meet all the requirements.

I. Pixelation

- A. Select a black and white picture (check with instructor)
- B. Use the pixelation tutorial as a guide
 - i. Use Adobe Photoshop to convert picture to pixels
 - ii. Use Microsoft Excel to input data, use conversion formula, and convert cells to squares to print.
- C. May get help from family and friends to
 - i. input data on Excel spreadsheet
 - ii. color the cells
- D. Documentation

II. Final Pixelation

Due on _____

- a. Final product _____
- b. Original picture file _____
- c. Pixelated picture file _____
- d. Submit Excel spreadsheet _____
 (May email file to instructor)
 Soon_Young_Kim@notes.k12.hi.us
- e. One reflection from parent/guardian _____
- f. Self reflection _____
- g. Essay on the overall experience _____
 One page typed, Arial font size 12 or 14
 (Minimum five paragraphs)

Scoring Rubric

Pixelation:

Maximum Score = 200

The rubric is looking at the following categories:

1. **Picture**– Black and white picture is relevant and educational.
2. **Pixelated picture**– Converted picture using the Adobe Photoshop.
3. **Excel spreadsheet** – Complete with data, used conversion formula, and cells converted to squares to print.
4. **Documentation** – List of helpers and detailed description of the time spent to help with the final essay.
5. **Parent/guardian reflection** – One reflection by the parent/guardian to help student with the final essay. (Comments are optional.)
6. **Self-reflection** – Self-reflection should help student to target the project expectations.
7. **Essay** –Essay to explain with examples the overall experience of the project.
8. **Final pixelation**–One completed pixelation (may submit photo).

Category	Met 10	On the way 8	Beginning 6	Does not meet 0
Picture (1x)	Black and white picture is relevant and educational.			No picture
Pixelated picture (1x)	Converted picture using the Adobe Photoshop.			No converted picture.
Excel Spreadsheet (1x)	Complete with data, used conversion formula, and ready to print.	Complete with data and used conversion formula.	Complete with data only.	No Excel spreadsheet
Documentation (1x)	List of helpers and detailed description of time spent.	List of helpers and some detailed description of time spent.	Some detailed description of time spent.	No documentation.
Parent/guardian reflection (1x) (Comments should help student essay.)	One completed reflections with signature.			Missing reflection.
Self-reflection (1x)	One completed reflection with detailed comments.	One completed reflection with some comments.	One completed reflection with no comments.	Missing reflection.
Essay (4x)	Typed essay (minimum five paragraphs) is clear and to the point with explanations of three detailed examples based on the process of making pixelation, working with parent/guardian, and others.	Typed essay (minimum five paragraphs) is clear with explanations of two examples based on the process of making pixelation, working with parent/guardian, and others.	Typed essay (minimum five paragraphs) is clear with explanations of one example based on the process of making pixelation, working with parent/guardian, and others.	Missing essay.
Final Pixelation (100x)	One completed Pixelation.			No Pixelation.

Put the score in the parentheses and write any comments in the boxes.

Category	Met 10	On the way 8	Beginning 6	Does not meet 0
Picture (1x)				
Pixelated picture (1x)				
Excel Spreadsheet (1x)				
Documentation (1x)				
Parent/guardian reflection (1x) (Comments should help student essay.)				
Self-reflection (1x)				
Essay (4x)				
Final Pixelation (100x)				

Project Grade _____ Name _____ Per. _____
 Name _____ Date: _____

Pixelation: _____ Maximum Score = 200

1. Picture _____/10

2. Pixelated picture	_____ /10
3. Excel spreadsheet	_____ /10
4. Documentation	_____ /10
5. Parent/guardian reflection	_____ /10
6. Self-reflection	_____ /10
7. Essay	_____ /40
8. Final pixelation	_____ /100
TOTAL	_____ /200

Name _____

Date: _____

Pixelation:

Maximum Score = 200

9. Picture	_____ /10
10. Pixelated picture	_____ /10
11. Excel spreadsheet	_____ /10
12. Documentation	_____ /10
13. Parent/guardian reflection	_____ /10
14. Self-reflection	_____ /10
15. Essay	_____ /40
16. Final pixelation	_____ /100
TOTAL	_____ /200