Independent Learning Project

Department:	MATHS	Start Date:	Autumn 2 nd Half term	Due Date:	December
-------------	-------	-------------	----------------------------------	-----------	----------

Title of Task: Maths and Optical Illusion Art	How should I submit my work?		
Aims/Learning Outcomes:	Success Criteria:	My Target Level:	
 To identify how mathematics principles are used in real life 	(Other sheet attached)		
application in this specific case of Art work.			
 To gain insight into how Maths is used in design and Art 			
To create an artwork using mathematical processes and content.			
What you need to do	Extension Task	Useful Topic Related Words	
Onidalization	You Could:	Symmetry	
Guidelines:		Scale	
You should research famous artists who have used maths to	-Research additional artists and compare	Pattern	
make optical illusions. You will use your research to help you	the differences between the artists.	Novement	
to create your own musion.	-Create additional drawings based on a	5120	
	Convolues the Eibenseei sequence in		
Vou Must	vour art?		
Research the history of Ontical Illusion			
Research how maths is used to create Ontical Illusion Art			
Create your own optical illusion art work			
You Should:			
Show adequate examples of the art			
Show evidence of exploring the topic further			
Explore the use of colour in the art			

What steps can I use to help along the way? These steps will be helpful when completing the project.	Are there any supporting documents – PowerPoint's, images, pictures, website links, etc?	Equipment that I may need
 Checkpoint 1 (due in week 1) <u>Students to research the history of Optical Illusion</u> Time period Artists and the method of their Optical Illusion Art Fibonacci sequence used in Optical Illusion Art (types of Fibonacci patterns, shapes and sequence) Rule of Thirds in composition used in Optical Illusion Art Geometric shapes used in the art movement 'Cubism' Present day optical Illusion Art and Maths. 	Artists to Research: Victor Vasarely Bridget Riley Josef Albers Richard Anuskiewicz Richard Allen	pen, pencil, colouring pencils, ruler, internet
 Checkpoint 2 (due in week 2) <u>Research two of the Artists below that use Optical illusion art.</u> Date and place of birth Where they studied? How did they come to create optical art? At least three examples of work, with labelling shapes used and optical illusion created? 		
 Checkpoint 3 (due in week 3) <u>Research how maths is used to created Optical Illusion Art</u> What mathematical principles are applied? What are the most common shapes used? What effects can be created and how? What effects can be created and how? Example: The square in the centre appears to be spinning, even though, the viewer knows that it is standing still. 		

Checkpoint 4 (due in week 4)	
Create your own optical illusion art work	
To create an effect, example:	
Illusion of Movement (either popping out or sinking in or	
spinning on the page)	
Deception of Size	
Deception of direction	
Hand in all work as a portfolio	

Please remember to plan out your time carefully and ask your subject teacher if there is anything that you do not understand.