UNIT OVERVIEW & LEARNING JOURNEY



YEAR 8 - COMPUTING: TERM 1 (1st half term)

MEDIA VECTOR GRAPHICS

Welcome, future digital artists! Get ready to dive into the amazing world of Vector Graphics! In this unit, you'll learn how to create awesome digital designs like illustrations, logos, and icons that can be scaled huge without ever looking blurry. You'll use special software like Inkscape (it's free and super cool!) to bring your creative ideas to life.

You'll discover the secrets behind professional designs, learn how to build images piece by piece, and become a master at making your digital creations look perfect for any purpose. This unit is all about giving you the power to create stunning, super-sharp digital art!

Your artist's toolkit: what you'll learn and achieve!

What I Already Know! (My Digital Superpowers from before!)	New Adventures This Term! (What We'll Learn!)	Where We're Heading Next! (Your Future Digital Journey!)		
How to use digital devices and basic creative tools	How to use tools to draw and change shapes	Create even more advanced digital work (like animations or complex illustrations)		
You might have used vector drawing before in Year 5	How to understand z-order (layers) to make sure things are visible	Use a wider range of vector tools and techniques confidently		
Basic ideas of objects, layers, and grouping	How to work with multiple objects by aligning, distributing, and grouping them	Design and create vector graphics for specific purposes, like marketing or game design		
You can make simple digital presentations	How to combine shapes using "union," "intersection," and "difference"	Understand how vector graphics are used in different industries (e.g., animation, web design)		
	How vector graphics are made of "paths" and "nodes"	Create projects that focus on professional quality and user experience		
	How to change shapes into paths and edit them	Explain how vectors can be scaled without losing quality		
	How to make straight and curved paths	Describe how vector images are stored using "markup"		
	How to explain what "markup" is and change it to modify an object	Evaluate and improve your own vector graphics		
	How to choose a project, plan a design, and combine tools to create a vector image	Explain the key differences between vector and bitmap images		
	How to evaluate your project against its purpose	Identify when to use vector graphics		

















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W	eek 1: Shape Shifters - Discover how to create and transform basic s	hapes to bu	ild an image			
Skills:			Key words:			
•	Use tools to draw and change shapes (like circles, squares, stars)	Vector Fill Stroke Rotate				
•	Change the position and rotate your shapes	Reposition Z-order Layer				
•	Understand how "z-order" (layers) decides what you can see	Handle				
	RAG rate your confidence with this lesson	::	-:	:)		
W	Week 2: Object Organizers - Learn to arrange multiple shapes and objects perfectly					
Skills: Key words:						
•	Use tools to line up (align) and spread out (distribute) objects	Object Select Group				
•	Explain how "grouping" helps you work with many objects	Ungroup Align Distribute				
•	Combine two shapes using "union," "intersection," and	Combine Union Difference				
	"difference"	Intersection				
	RAG rate your confidence with this lesson):	-:	:)		
W	eek 3: Pathfinders - Explore the "paths" and "nodes" that make up v	ector graph	ics and crea	te		
av	vesome superhero faces					
Sk	ills:	Key words:				
•	Explain that vector graphics are made of paths					
•	Create and change straight and curved paths	Path Node Freehand Object				
•	Turn your shapes into paths and then edit them in new ways					
	RAG rate your confidence with this lesson	.:	-:	:		
	eek 4: Project Power Up - Start your very own open-ended vector gr	aphics proje	ect, choosing	what you		
want to create. Skills: Key words:						
ЭК		Key words:				
•	Choose a project and plan your design	Land IIII at a Can Line				
•	Combine different tools and techniques to create a vector image	Logo Illustration Icon				
•	Think about how well your project meets its goal (purpose)		 			
	RAG rate your confidence with this lesson	.:	<u></u>	:)		
W	eek 5: Code Commanders - Peek behind the scenes to see how vector	or images ar	e stored and	l improve		
yo	ur projects					
Skills:		Key words:				
•	Explain how "markup" describes what a vector graphic looks like	Vector Path Markup				
•	Change an object by editing its "markup" code	Scalable svg (scalable vector				
•	Plan and make improvements develop your project further	graphic)				
	RAG rate your confidence with this lesson			:		
	eek 6: Showcase Superstars - Compare vector and bitmap images, n	nake final to	uches, and s	hare your		
	amazing work					
Sk	ills:	Key words:				
•	Explain the main differences between vector and bitmap images	Bitmap Logo Illustration Icon				
•	Decide which image type is best for different situations					
•	Review your image using a "success checklist" (rubric)					
	RAG rate your confidence with this lesson	• • •	<u></u>	:		















