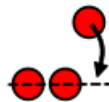
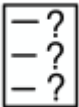


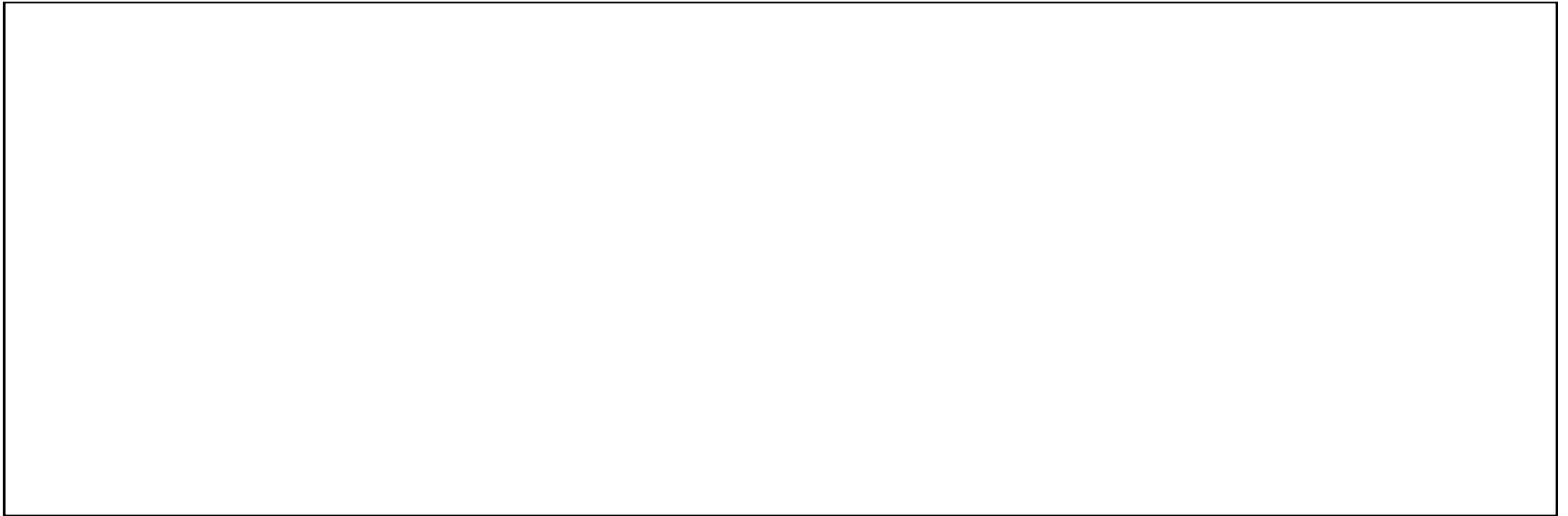
Vocabulary			Knowledge
Vector drawing	An image made using shapes, lines and points		<u>Vector graphics:</u> Vector graphics are images made from shapes, lines, and points, not tiny pixels. This means they can be resized to be very big or very small without becoming blurry, unlike bitmap images. A node (or anchor point) is a point on a shape or line that you can move to change its form. Paths are lines that connect these nodes, and you can adjust them to create curves or shapes. <u>Shapes, fill, and stroke:</u> Vector images are built from shapes, such as circles, squares, and triangles. Each shape has a fill, which is the colour or pattern inside it, and a stroke, which is the outline or border around it. <u>Editing a vector drawing:</u> You can move, rotate, and resize shapes or objects in a vector image. Unlike bitmaps, resizing a vector graphic does not reduce its quality, so it always looks sharp. Vector graphics programs let you work with layers, so different objects can be stacked and edited separately. You can group objects to move or resize them together, and ungroup them to work on them individually. Align tools help you line objects up neatly. <u>Snap, zoom, and export:</u> Snap helps objects line up with a grid or other shapes automatically. Zoom lets you look closely at details or see the whole image. When your work is finished, you can export it into different file formats, like SVG for vector graphics or PNG/JPG for sharing online. <u>Real-life uses of vector graphics:</u> Vector graphics are used in logos, signs, posters, and illustrations because they can be scaled to any size without losing quality. Designers, advertisers, and game developers often use vector graphics to create professional images.
Anchor point	A point on a line or shape that can be moved to change the shape		
Path	A line that connects nodes in a vector graphic		
Shape	A basic building block of a vector graphic		
Fill	The colour or pattern inside a shape		
Resize	To make a shape or image bigger or smaller		
Duplicate	To make an exact copy of a shape or object		
Layer	Different elements stacked on top of each other		
Align	Positioning objects in relation to each other		
Export	Saving a vector image in a format that can be used outside the program		

Quizzing		Quiz at home
Ask your partner the questions below. Can they find the correct answer on the right-hand side?		Ask your adult to look at the KO.
What is an image made from shapes and lines called?	Group	Quiz them using the vocabulary and knowledge section or the quiz questions. • Can they beat your score? • Can they score more than 5? 10? • Compete with your adult in the elimination quiz. Take it in turn to ask each other questions. The first person to get a question wrong is out.
What is a point on a shape that can be moved to change its form called?	The colour inside a shape	
What is a line connecting nodes called?	Lets us see details more closely	
What is the main advantage of a vector graphic?	To turn a shape around a point	
Which tool will allow you to move several objects together?	Duplicate	
What does fill mean in a vector graphic?	It can be resized without losing quality	
Why is zoom useful in vector graphics?	Vector	
What does rotate mean?	Path	
What is it called to make an exact copy?	Node	 
BIG Questions	Beat the adult	
- How does grouping and ungrouping make editing easier? - Where can we use a vector drawing? - How can vector graphics be used in games and animations? - What problem might happen if objects are not aligned properly?	Your teacher can give 10 facts in 1 minute about this topic. How many can you give to your partner? 	
Word scramble	Creative Tasks	Complete the spellings
Unscramble the key vocabulary from this topic below. You can create your own at the bottom	- Create a new logo for River Bank Primary School. Think about the colours you could use. - Draw a character using only shapes (circles, rectangles, polygons). Try to add accessories like hats or glasses. - Create an abstract art piece using repeated shapes and colours.	
inlag		A_ig_
iluctpdea		L_ye_
otperx		E_po_t
ilfl		V_ct_r
leayr		P_t_
ahtp		D_pl_ca_e
rsizee		
pseha		
rtevco		

Enquiry

Create a pattern

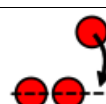
Arrange shapes to make a repeating pattern (e.g. tiles, stars or flowers)



Before and After edit

Create the design using Google Drawings
Edit it by changing colours, sizes and shapes
Which is clearer? Which looks better?

Knowledge	Knowledge
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Write the definition for each of the following words			Write the vocabulary word for each definition		
Vocabulary			Vocabulary		
Vector drawing				An image made using shapes, lines and points	
Anchor point				A point on a line or shape that can be moved to change the shape	
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