

Key Stage 2	Created by InspirEd Workshops – Film & Animation Specialists. Book a workshop to support this lesson plan. www.inspiredworkshops.co.uk/bicschool	
Curriculum Subjects	Science Art & Design	
Learning Objectives	Discover how to separate colour pigments using chromatography	
Materials	BICKIDS® Visa® Felt Tip Pens Blotting paper or coffee filter paper Glasses filled with water	
Teacher Prep		Pupil Prep
Separate the class into small groups. Each group will need the above materials.		None needed
Lesson		
Chromatography is a technique used to separate mixtures. Each BICKIDS® Visa® Felt Tip Pen is made up of a selection of colours. This experiment will show which pigments are used to make up each colour. Worksheet Ask the children to choose three colours and predict what pigments each colour contains. Use the worksheet to record both predictions and results. Experiment Fold the filter paper into quarters and add three different colours of pen near to the edge. Fill the glass with a small amount of water. Fold the filter paper gently, making sure the colours are not touching each other. Place in the glass of water centre first. The water will soak up towards the colours over the course of a few minutes. 		
Learning Outcomes	Pupils will work scientifically, gathering, recording and presenting data. They will ask relevant questions and use scientific enquires to answer them. Use chromatography to understand that colours are made up of many pigments.	
Follow on Activities	Use chromatography to create artistic flowers or butterflies. 	

Complete the boxes below. Choose three colours and predict which pigments they are made up of. Conduct the Chromatography experiments and record the results in the boxes.

EXAMPLE

Brown



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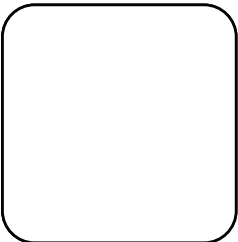
Results



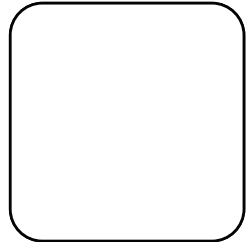
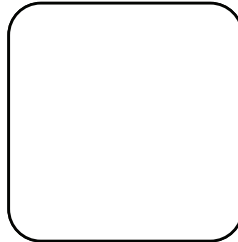
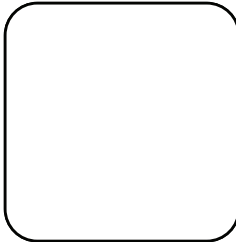
I predict that brown is made up of blue and green pigments

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Results

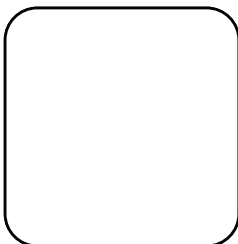


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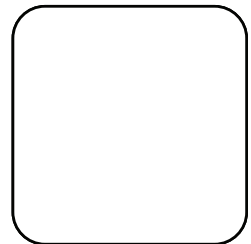
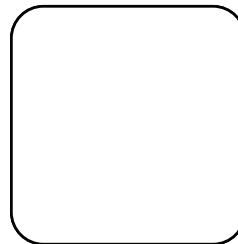
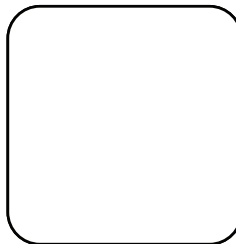


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Results

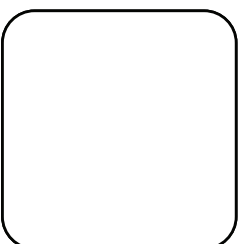


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Results



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