## **P**

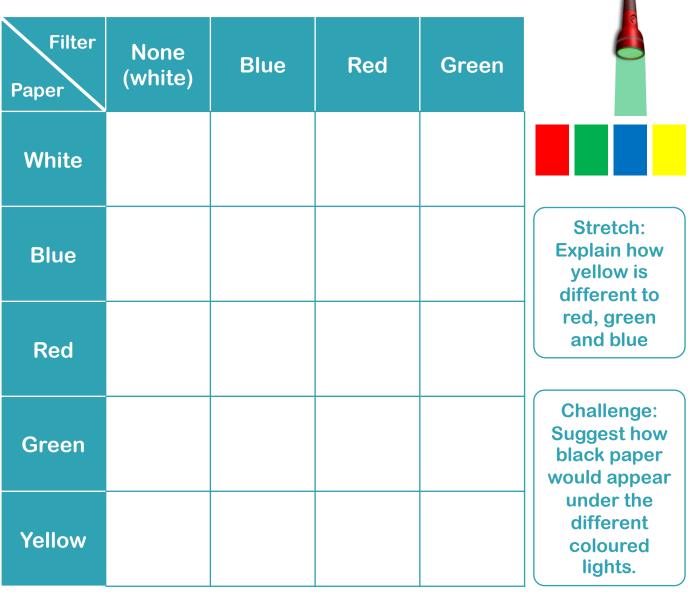
## Investigate light colour mixing

Examine different coloured objects under different colours of light. Record in the table what colour they appear below.

## Method

This activity should be done in a dark room.

- 1. Place different coloured sheets of paper on the table (white, blue, red, yellow, and green).
- 2. Shine a torch (white light) on each piece of paper in turn. Record the colour each piece of paper appears on your table.
- 3. Place different coloured filters (red, blue and green) in front of the torch and shine it at the pieces of paper.
- 4. Record what colour each piece of paper appears under different coloured light.



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## Investigate light colour mixing

Use your results to answer the questions below

Explain why it was important to conduct this activity in a dark room.

Using your results, suggest three rules that could help you work out what colour something would appear under different light

. F	Rule 1:			
2. F	Rule 2:	 		
	Rule 3:			

A students suggests "Red surfaces only reflect red light." Use your results to explain if this statement is true or false.

Suggest a job where colour mixing of light is important. Explain your idea.