

Secret Message

I can use my knowledge of light and colour to create a secret message.



Can you write a secret message that is only visible when you look through a coloured filter?

Use a light blue colouring pen or pencil to write your message in the box below. Then use orange, pink, red and yellow pens or pencils to colour a pattern around it, hiding the message from view. Your partner should be able to decode the message by looking at it through a red filter.

Ask your partner to decode the message and complete this sentence:

The secret message says _____.

How does the red filter make your message easy to read? Explain your ideas by filling in the gaps below.

The blue writing in my message reflects _____ light. When I look at it through a red filter, the blue light is _____, so the writing looks _____ and stands out. The red patterns over and around my message make it hard to read in normal light, but the patterns _____ red light which can pass _____ the red filter, so they do not stand out when my partner looks through the filter. This is how my partner can _____ the message by looking through the red filter.

Use these words to help you.

read



absorbed



reflect



black



through



blue

