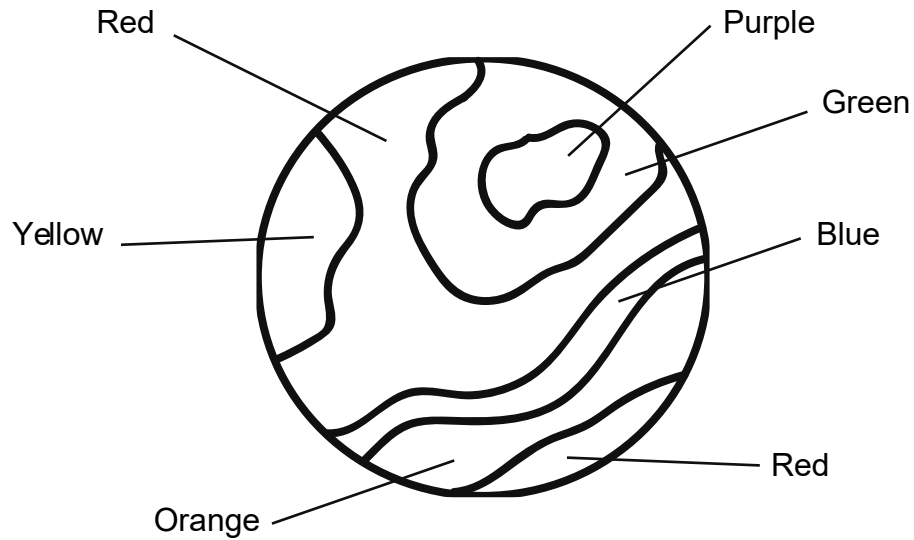


Use a different color crayon to fill in each piece of the Mystery Moon image.

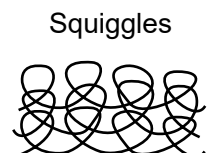


What happens when you look at these colors under the red filter?

How do the colors change under the blue filter? Why do you think so?

Try layering different colors, patterns, and writing materials to explore the effects of red and blue filters. Circle the combinations that work best to reveal information.

You might try: Yellow highlighter cross-hatching and pink highlighter squiggles



Use what you found out about colors, patterns, and optical filters to hide and reveal a hidden message in the following challenges:

| Criteria The requirements of a design | Constraints Factors that limit how you can solve a problem |
|--|--|
| Create a hidden message that can be read from across the room. | The entire message must fit on one sheet of copy paper. |

| Make up your own challenge | |
|-----------------------------------|--------------------|
| Criteria | Constraints |
| | |

What types of information do you think you could reveal by combining optical filters with remote sensing devices, like cameras or periscopes?

