

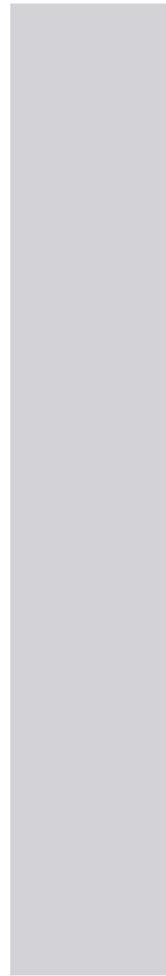
Physics - Key stage 4 - Waves

# Colour

Mr Benyohai



# Transparent, translucent and opaque objects



# Application practice

A wall is painted violet.

1. When some coloured lights shine on it, the wall appears black.

Explain why.

2. Suggest two different colours of light that would cause the wall to appear black.



# Application practice - answers

A wall is painted violet.

1. When some coloured lights shine on it, the wall appears black.

Explain why. - **The wall only reflects violet light. If another colour is shined on the wall it will be absorbed**

2. Suggest two different colours of light that would cause the wall to appear black.

**Any two colours that are not violet.**



# Application practice

White light is directed at two filters.

The first absorbs red, orange, blue, and violet the second only transmits indigo. What colours of light have been absorbed by the **second** filter?



Credit: Needpix.com - George Hodan - Bulb light white



# Application practice - answers

White light is directed at two filters.

The first absorbs red, orange, blue, and violet the second only transmits indigo. What colours of light have been absorbed by the **second** filter? - **Yellow and green**



Credit: Needpix.com - George Hodan - Bulb light white

