

## Homework 29c **A world of colour**

1.
  - (a) Some people recall the colours of the rainbow (spectrum) in order by remembering the letters **ROYGBIV**. What colour is recalled by each letter?
  - (b) Other people remember the phrase “Richard of York gave battle in vain”. Explain how this helps them remember the colours of the spectrum.
  - (c) Make up your own phrase or method to help you remember the colours of the spectrum in order.
2. Use the words in the HELP-BOX to copy and complete the three paragraphs below.

refracted	absorb	prism	black
spectrum	green	blue	

- (i) White light is a mixture of all the colours of the ..... The colours can be split up using a ..... . Rays of different colour are ..... (bent) through different angles and this separates them.
  - (ii) Coloured filters ..... light of some colours and let other colours pass through. For example a green filter lets ..... light through but absorbs all the other colours.
  - (iii) Coloured surfaces reflect only their own colour of light and ..... the others. For example, blue jumpers reflect ..... light and ..... light of all other colours. A surface which always absorbs all the light will always look .....
3. Street lights often make the colours of objects look different from how they look in daylight. Plan an investigation you could do to find out which colours would be best for painting the following notice.  

NO PARKING DURING THE HOURS OF DARKNESS
4. Which jobs could be dangerous for a colour-blind person?