| Name | | | | | Class | | Date | | | |
|------|---|--------------------------------------|-------------|------------------|----------------|----------------------|-----------|-------|--|--|
| 1 | | gaps in these se once or not at a | | sing word | ds from the b | oox. You can use | each word | once, | | |
| | | dispersion | | | prism white | reflection yellow | seven | | | |
| | Light from the Sun or a light bulb is called light. If white light passes through | | | | | | | | | |
| | a | lit up into | a | . This is called | | There are | | | | |
| | colours in the spectrum. | | | | | | | | | |
| 2 | | am shows light s these sentences | _ | • | • | | | | | |
| | | orbs filter reflects re | | - | prism its | r o y g | | | | |
| | You can m | nake coloured lig | ght using a | ı | This | i | | | | |
| | one colour of light and | | | | the rest. | V | | | | |
| | For example, an filter absorbs all the colours | | | | | | | | | |
| | except ora | nge. | | | | | | | | |
| | | | | | | | | | | |

3 A stage in the theatre uses coloured spotlights at different times during the show. The coloured lights make the performers' costumes appear different colours. For example, a white costume looks red in red light because it reflects all colours, but only red light is reaching it. A green costume looks black in red light because it absorbs red light (it only reflects green light).

Complete the table to show what the different parts of the costumes look like. Some have been done for you.

| | Colour in white light | Colour in red spotlight | Colour in blue spotlight | Colour in green spotlight |
|---|-----------------------|-------------------------|--------------------------|---------------------------|
| а | white | red | | green |
| b | red | | black | |
| С | green | black | | |
| d | blue | | blue | black |
| е | black | | black | |

I can...

- recall how a spectrum is formed
- describe how a filter is used to make coloured light
- work out how coloured light affects the appearance of coloured objects.