

Use with textbook pages 144–149.

## Facts about visible light

Answer the questions below.

1. When white light is refracted through a prism, different colours emerge. Where do the different colours come from?

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2. Explain why all colours refract at different angles.

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3. When does light refract or bend?

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4. Which colour in the visible spectrum has the longest wavelength?

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5. Which colour in the visible spectrum has the shortest wavelength?

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6. Explain how you can cause light separated by a prism to combine.

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7. Which has a higher frequency, yellow light or blue light?

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8. Why does a violet dress appear to be violet in sunlight?

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9. List three colours that can combine to produce all the colours of the rainbow.

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