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|---------------------------------|--|--------------|---|
| <b>Topic</b>                    | Properties of light  | <b>Level</b> | Key Stage 3 (or any course for students aged 11-14) |
| <b>Outcomes</b>                 | 1. Students explain the properties of light using their knowledge of the light topic   |              |   |
| <b>Information for teachers</b> | This activity is best done at the end of a topic on light. Students work in pairs to identify some properties of light from a photograph which acts as a stimulus. Students then use their scientific knowledge to explain these properties. |              |   |

Use this picture as a stimulus to identify some properties of light.



Properties of light that we can see in the picture:

e.g. white light is made up of different colours

Now use this picture as a stimulus to **explain** some properties of light.

1. Why is there a shadow?
2. Why is there a reflection?
3. Why is there colour?
4. How did the light reach Earth?
5. How can we see the sun?
6. How can we see the person?
7. Why is the sky blue?
8. Why are there hexagons?
9. Why can't we see the stars?
10. Why can't we see the bottom of the ocean if water is transparent?

