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## Investigating a lens

Find out what you can about the different images formed by a converging lens, by doing experiments.

### YOU HAVE:

- A light source.
- A lens
- A piece of white card.
- A long ruler

### SAFETY:

- No real safety issues.
- Do not stare at the light source as it will desensitise your eyes.
- NEVER** look directly at the sun through a lens.
- Report any incidents to a leader.

### POSSIBLE QUESTIONS TO ANSWER:

- 1). Can you form an image of the windows onto the card?
- 2). Can you form an image of the light source onto the card?
- 3). What happens to the image as the distances between light source, lens and card are changed?
- 4). How would you describe the images you have formed?

### REPORT.

Prepare to describe to the group:-  
the experiments that you did,  
what you have discovered,  
any general conclusions.

Your report should take 3-4 minutes.

You should be prepared to answer questions from the group.