



Name: ..... Form: .....

Based on pages 20 and 21 of *How we see things*

# Investigating light and distance

Try this...

1. Collect the following items: a calculator which uses solar cells, a torch, some tissue paper, scissors and an elastic band.

2. Plan an investigation to find out if there is a change in light energy at different distances from the torch.



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3. Predict what you may find.



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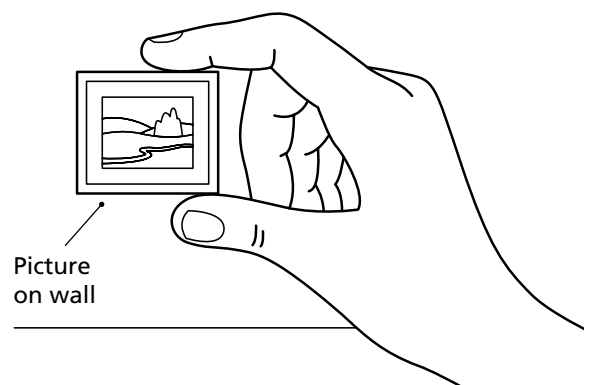
4. Show your teacher your plan. If your teacher approves, try your investigation.

5. How did your results compare with your prediction?



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6. You can measure the size of an object in your field of view in the following way. Put your finger and thumb up in front of an object as the diagram shows. Measure the distance between the finger and thumb.



7. On a separate piece of paper, plan an investigation to find out how the size of an object in your view changes as you move away from it.

8. Show your teacher your plan. If your teacher approves, try your investigation.

9. Make a line graph from your results.

10. What does the graph show?



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