



# SHADOWS CHANGE!



How do shadows change when the light moves?

## 1 QUESTION



How do shadows change when the light moves?  
Why do you think so?

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## 2 PREDICTION



What do you think will happen?  
Draw or write your prediction.

## 3 MATERIALS

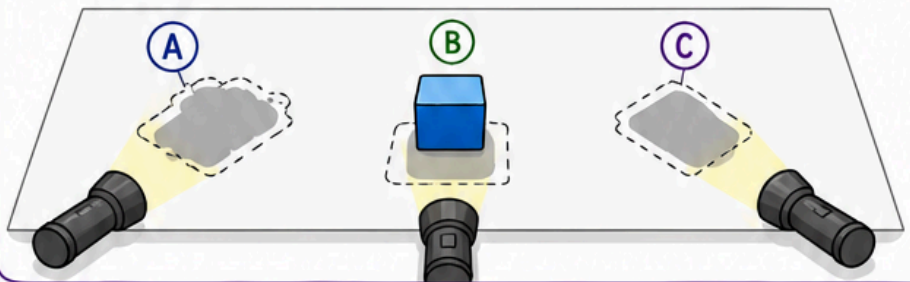
Tick what you will need.

- Torch or lamp
- Small toy or object
- Ruler
- White paper
- Sticky tape (optional)
- Pencil

## 4 WHAT TO DO

- 1 Place the object in the middle of the paper.
- 2 Turn on the torch and shine it towards the object from one side.
- 3 Draw around the shadow. Label it A.
- 4 Move the torch to a new position (different side or higher/lower).
- 5 Draw around the new shadow. Label it B.
- 6 Move the torch again to another position.
- 7 Draw around the new shadow. Label it C.

Compare your shadows.



## 5 WHAT HAPPENED?

Write your observations.

What did you see? \_\_\_\_\_

How did the length of the shadow change? \_\_\_\_\_

How did the direction of the shadow change? \_\_\_\_\_

Why do you think the shadows changed? \_\_\_\_\_



Great scientists ask questions, make predictions, observe and learn!  
**Keep exploring!**

