STEM Challenge support materials

Make a shadow

This pack includes...

p2: Challenge/Questions card

p3-4: Posters

p5: Practitioner notes

p6-8: Word cards (&blanks) (for display or as flash cards)

p9-11: 'What did we do?' sheets (for writing, drawing, or adding a photograph)

p12-14: 'My experiment' sheets (for writing, drawing, or adding a photograph)



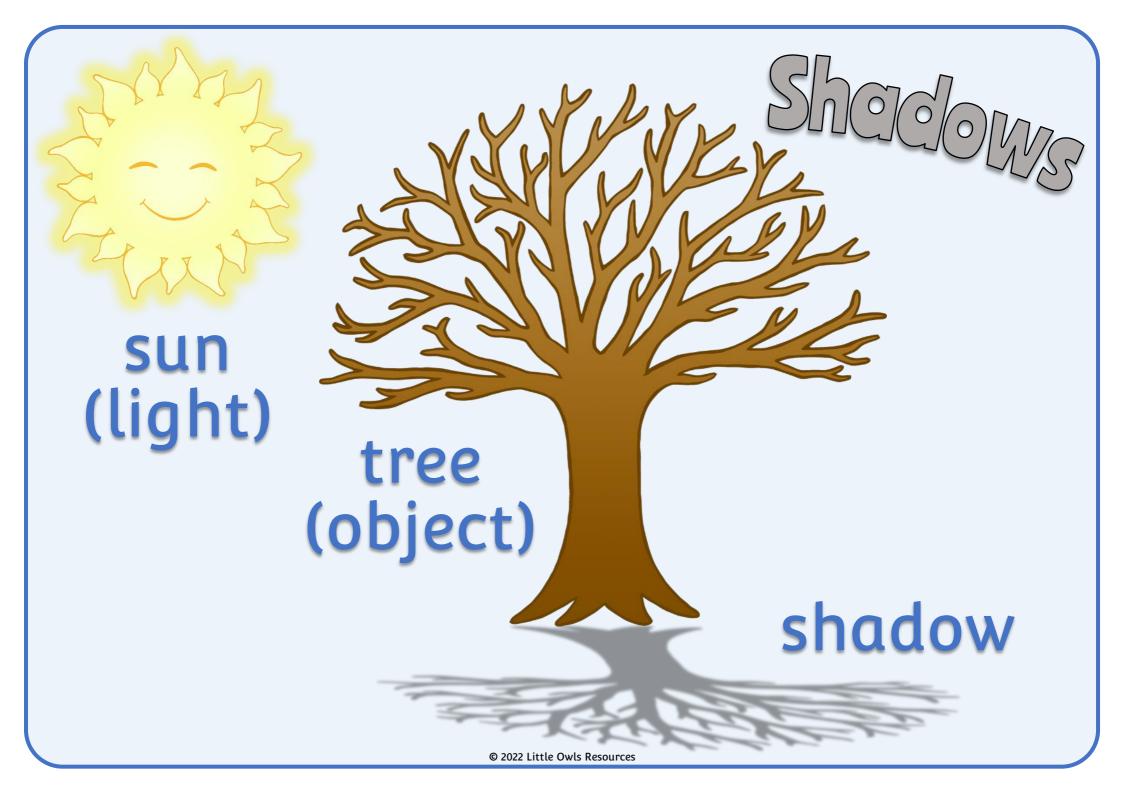
? STEM? Questions?

Can you make the shadow bigger?

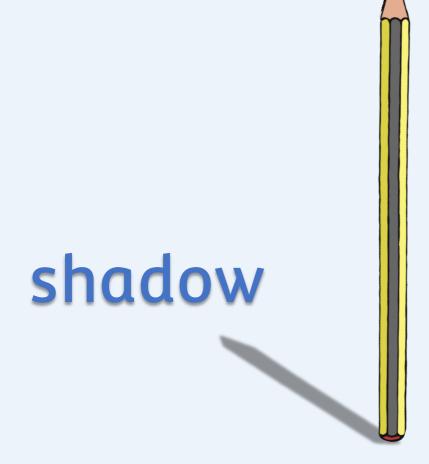
Can you make the shadow smaller?

Can you make different shadow shapes?

What happens when you move the light?

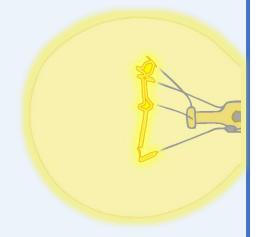


Sholows



pencil (object)

> lamp (light)





Make a shadow

Practitioner notes

Items that might be useful

- Torch or Lamp
- Different shaped objects
 - A sunny day!

Encourage a short discussion about shadows.

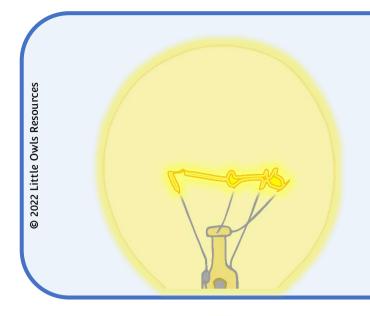
What is a shadow? - Where have you seen a shadow?

Give the children time to explore their ideas.

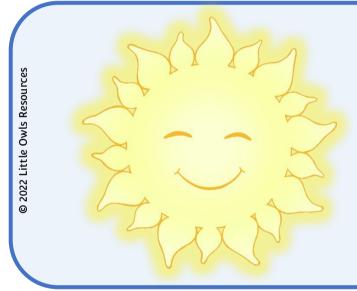
How will you make a shadow? - What do you need?

Allow the children to experiment with as much independence as possible. Let them discover how shadows change as you move an object or move the light source (if you can!).

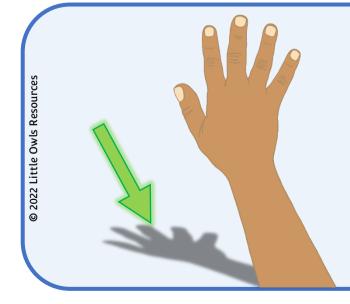
How did you make the shadow bigger/smaller?



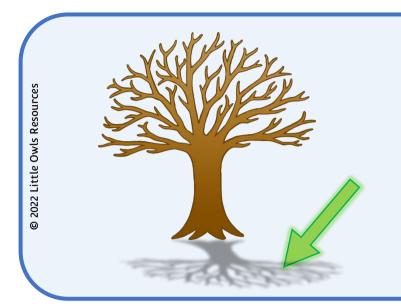
light



sunlight



shadow



shadow

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dark

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torch

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WHAT DID WE DO?



WHAT DID WE DO?



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WHAT DID WE DO?



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My experiment

My experiment

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My experiment

My experiment

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My experiment

My experiment

