STEM

Challenge support materials

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)

**Make a shadow**

**This pack includes…**

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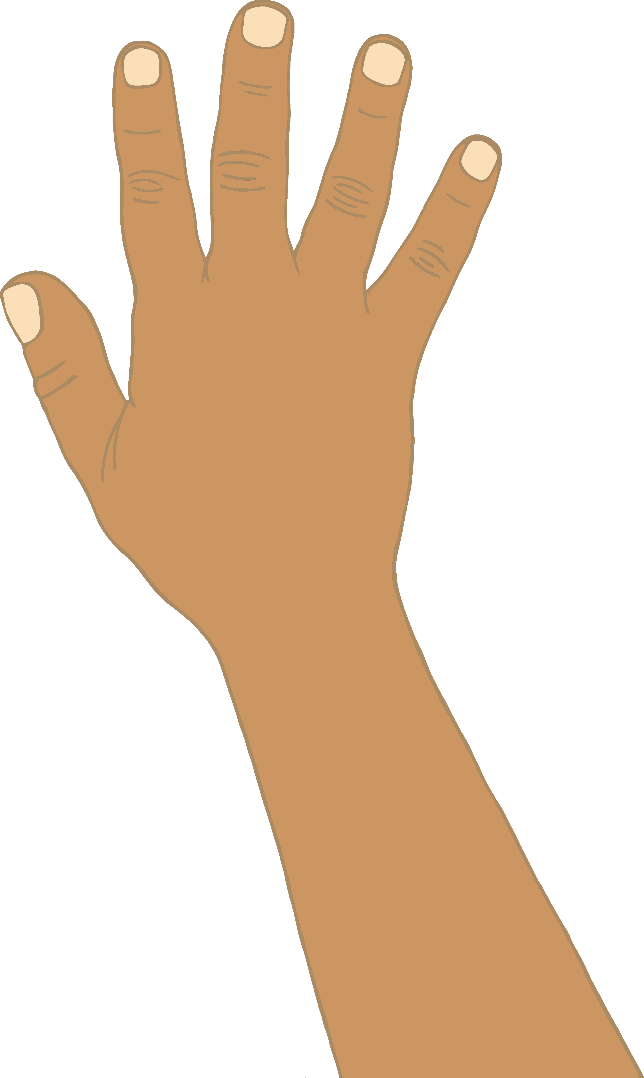
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STEM

Can you…

…make a shadow?

Challenge



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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?

?

?

?

Logo

Description automatically generated with medium confidenceA yellow flower with a black background

Description automatically generated with low confidence

Shadows

shadow

tree (object)

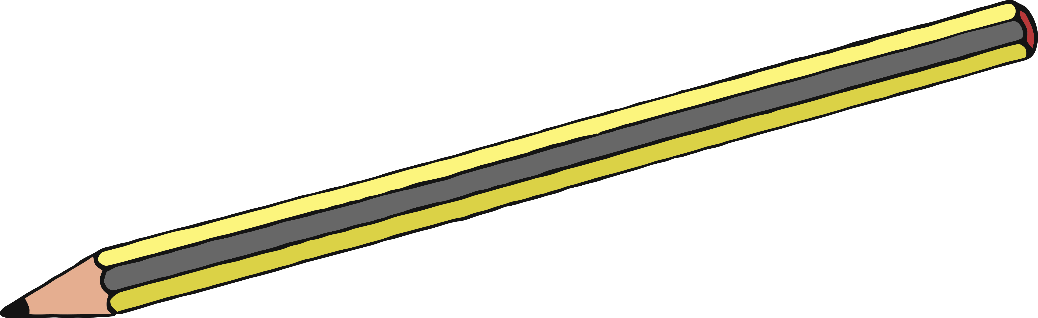
sun (light)

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Shadows

Shadows

pencil (object)

Schematic

Description automatically generated with medium confidence

shadow

lamp (light)

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

**Items that might be useful**

Practitioner notes

**Make a shadow**

STEM

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?

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sunlight

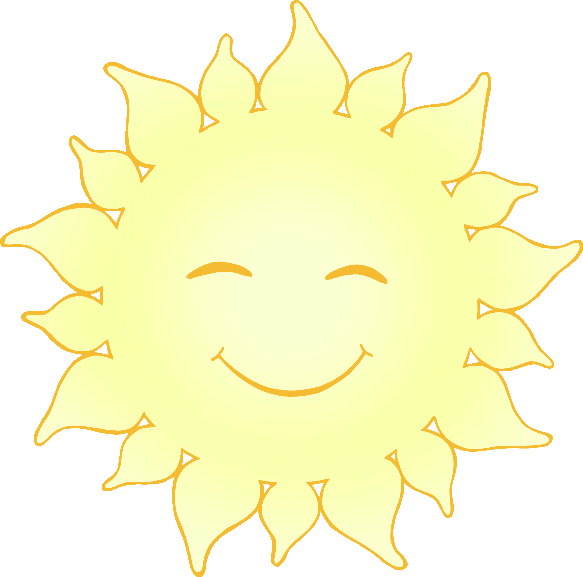
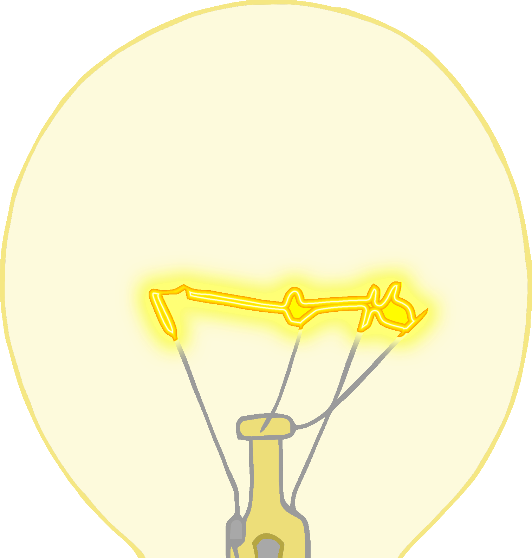
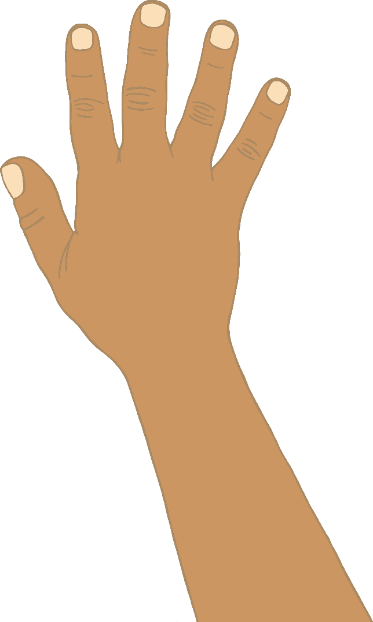
shadow

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light



Logo

Description automatically generated with medium confidence

shadow

dark

torch

A picture containing icon

Description automatically generatedSchematic

Description automatically generated with medium confidence

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A close-up of a hand

Description automatically generated with medium confidence

What did we do?

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A close-up of a hand

Description automatically generated with medium confidence

What did we do?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

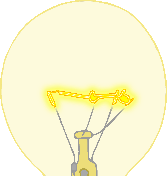
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A close-up of a hand

Description automatically generated with medium confidence

What did we do?

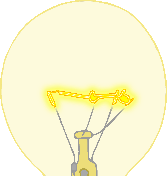
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My experiment

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

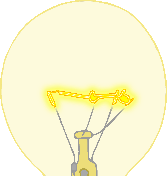
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My experiment

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My experiment

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