SCIENCE INVESTIGATION · LIGHT

How does our shadow change during the day?

England national curriculum · Year 3 · working scientifically

Our question

How does the length of a shadow change from morning to home time?

My prediction — what do you think will happen, and why?

What we will MEASURE, again and again

the length of the same object's shadow (cm)

What we will KEEP THE SAME

- the same object
- the same spot (mark it with chalk)

Equipment

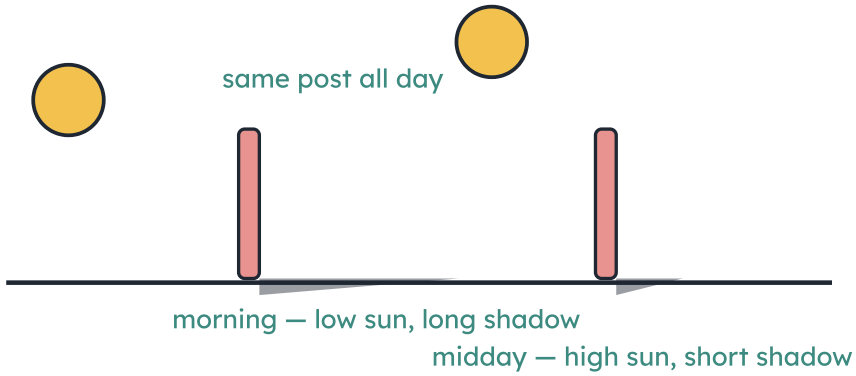
- [ ] a playground object or metre stick
- [ ] tape measure
- [ ] chalk
- [ ] a sunny day

Running it: undefined

Keep it safe: undefined

STEP 2 · DO IT AND RECORD

Our results



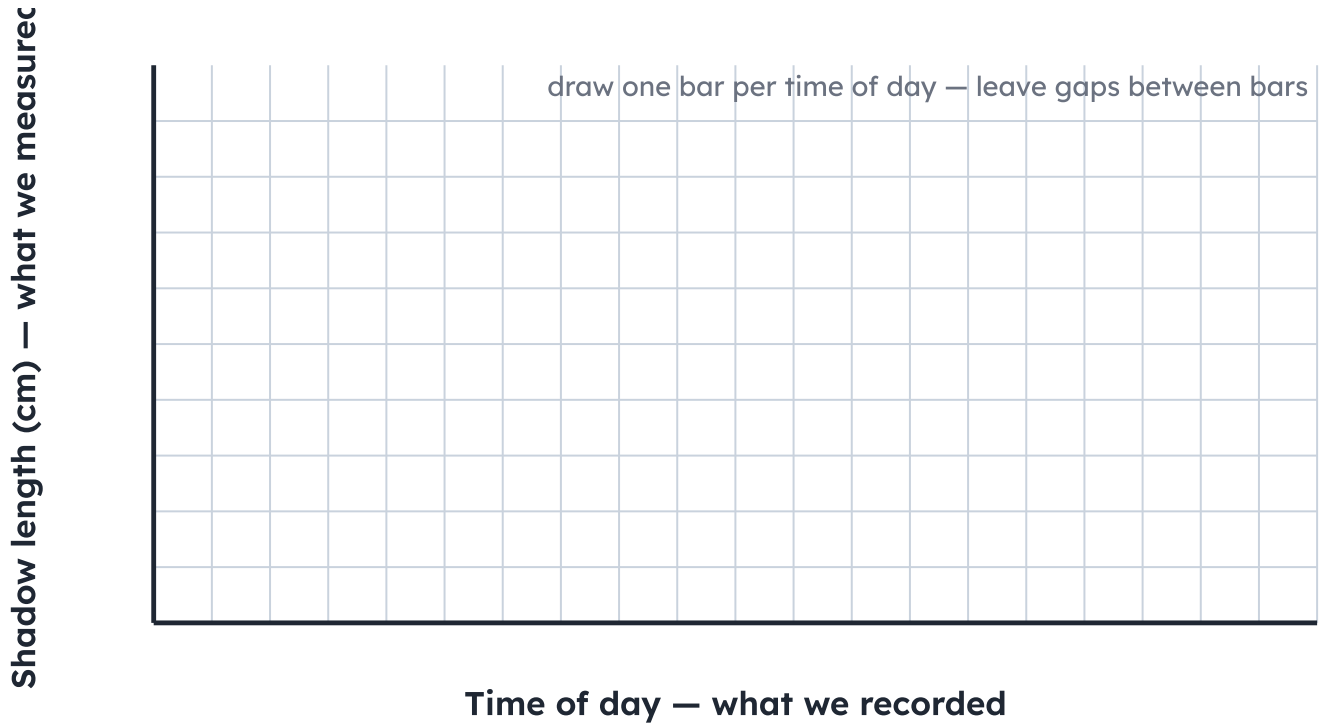
Time	Shadow length (cm)	What I noticed
9 am		
11 am		
1 pm		
3 pm		

Units live in the headings, so the boxes only need numbers. Record at the same times, in the same way, every time.

STEP 3 · DRAW THE PICTURE OF YOUR RESULTS

Bar chart of our results

A bar chart suits results you can compare side by side. Number the axis in equal steps and give every bar the same width.



What does your chart show? Say it in one sentence.

STEP 4 · WHAT DID WE FIND OUT?

Our conclusion

I found out that...

I think this happened because...

My results show...

How did it go?

What went well...

What I would change next time...

A new question I could investigate...