

Shadow stick investigation planner

Student name: _____ **Date:** _____

Other members of your team: _____

What are you going to investigate?

What do you predict will happen? Why?

To make this a fair test what things (variables) are you going to:

Change?

Measure/Observe?

Keep the same?

Draw the equipment you will use and show how it will be set up.

Write and draw your observations in your science journal.

Recording and presenting results

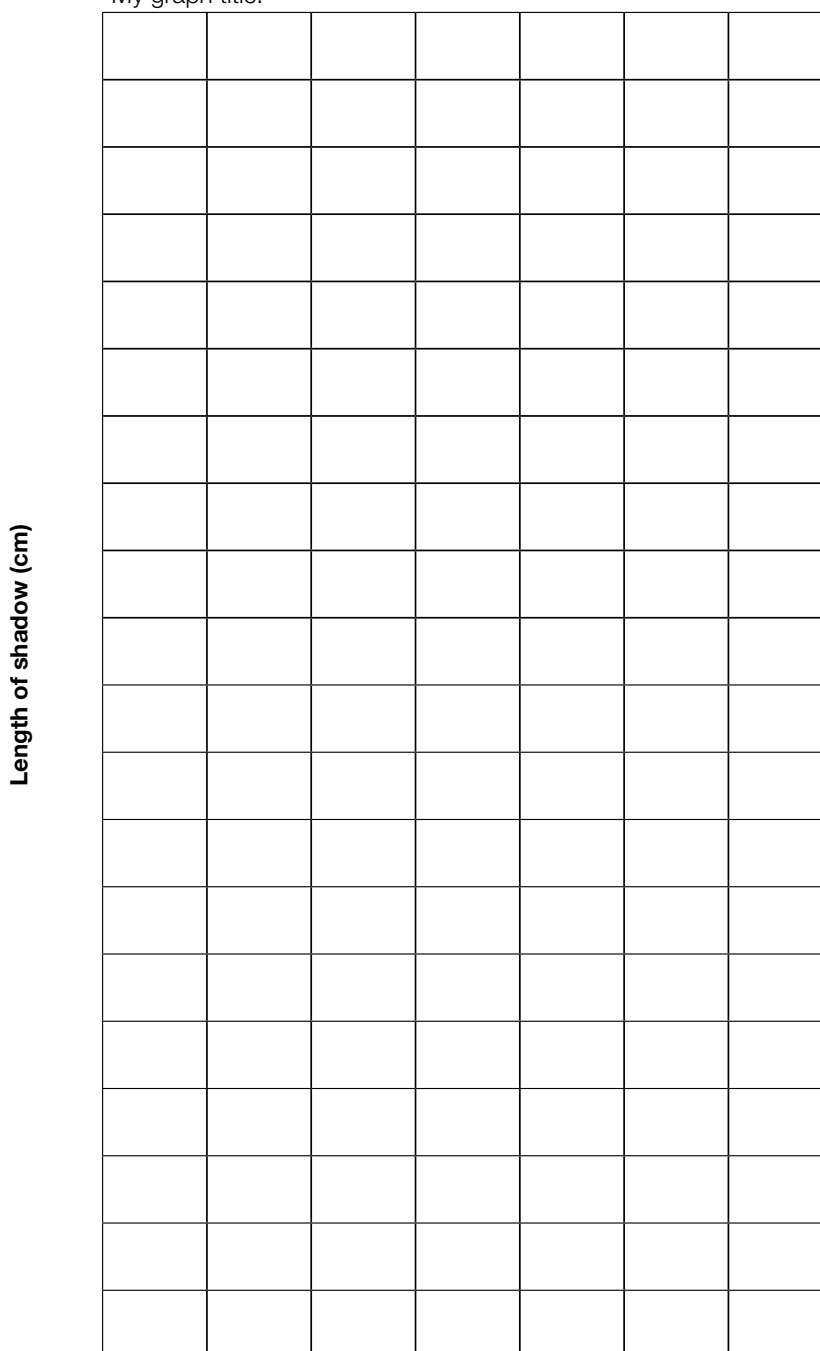
Record your results in a table.

Length of shadows at different times

Time of observation	Length of shadow (cm)

Present your results in a graph.

My graph title:



Explaining results

Review the results of your investigation to answer the following questions.

What happened to the length of the shadow during the day?

When was the shadow the shortest? When was it the longest?

Why did the length of the shadow change?

What happened to the direction of the shadow during the day?

What happened to the position of the Sun during the day?

Why did the direction of the shadow change during the day?

Evaluating the investigation

What challenges did you experience doing this investigation?

How did you, or how could you, overcome them?

How could you improve this investigation (fairness, accuracy)?