

# Shadow height investigation planner

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Other members of your team: \_\_\_\_\_

<p>What are you going to investigate?</p>          <p>Can you write it as a question?</p>	<p>What do you predict will happen? Why?</p>          <p>Give scientific explanations for your prediction</p>
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**To make this a fair test what things (variables) are you going to:**

<p>Change?</p>          <p>Change only one thing</p>	<p>Measure?</p>          <p>What would the change affect?</p>	<p>Keep the same?</p>          <p>Which variables will you control?</p>
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<p>Describe how you will set up your investigation.</p>          <p>Use drawings if necessary</p>	<p>What equipment will you need?</p>          <p>Use dot points</p>
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**Write and draw your observations in your science journal**

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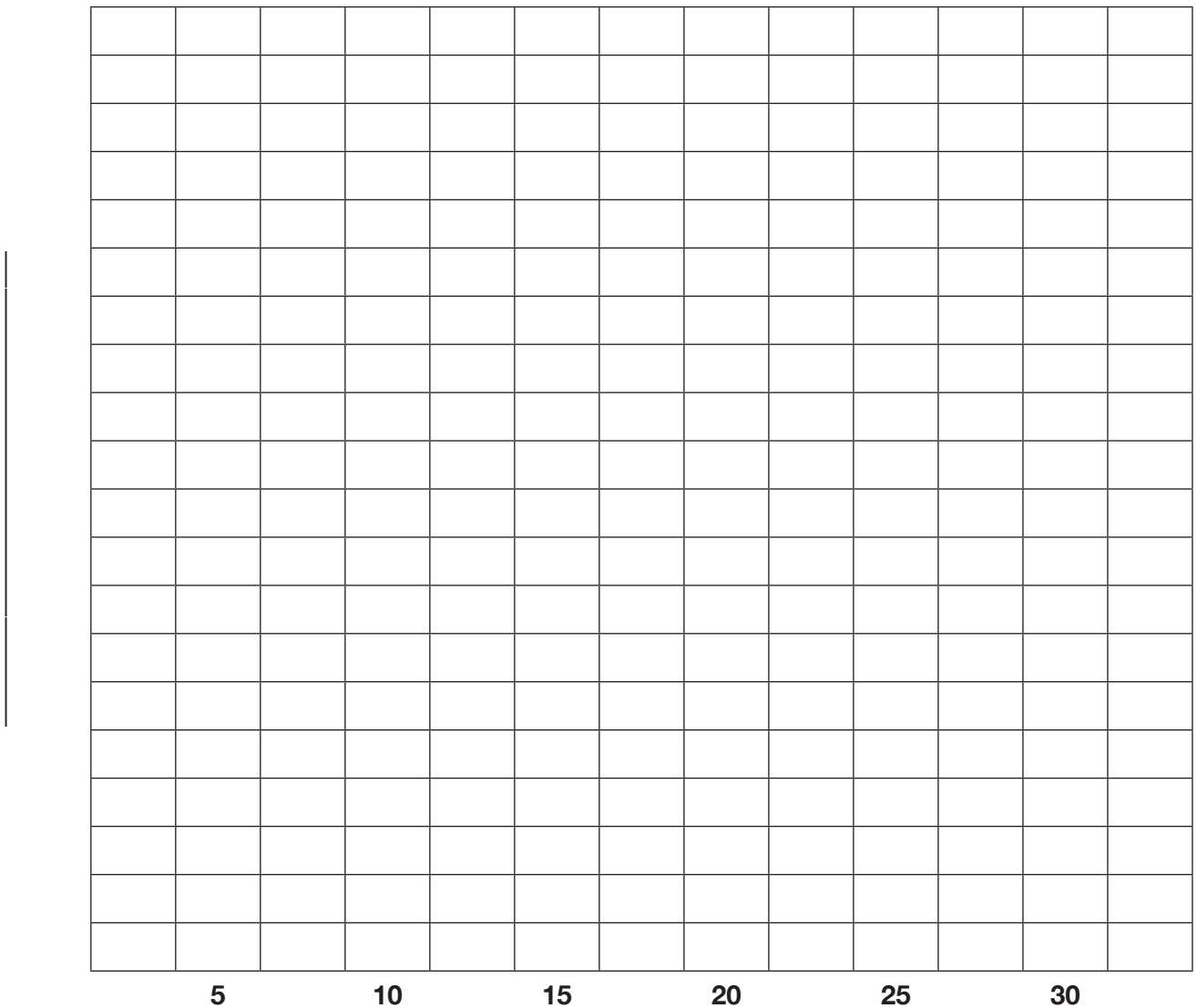
## Recording and presenting results

Record your results in a table.

Distance from torch to glue stick (cm)	Height of shadow (cm)
5	
10	
15	
20	
25	
30	

Present your results in a column graph.

Graph title: \_\_\_\_\_



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## Explaining results

What happened to the height of the shadow when you changed the distance from the torch to the glue stick?

Did the result match your prediction? Explain why and how it was different.

## Evaluating the investigation

What challenges did you experience doing this investigation?

How did you, or could you, overcome them?

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