Freeze-thaw investigation planner

**Year 5**

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| **What are you going to investigate?** Can you write it as a question? | **What do you predict will happen? Why?**Give scientific explanations for your prediction. |
| **To make this a fair test what things (variables) are you going to:** |
| **Change?** Change only one thing. | **Measure?** What would the change affect? | **Keep the same?** Which variables will you control? |
| **Describe how you will set up your investigation** Write, draw or upload a photo of your drawing. | **What equipment will you need?** Use dot points.* Small amount of blu-tac (to seal the end of the syringe)
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| **Write and draw your observations**  |
| **Recording and presenting results**Record your results in a table.

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| **State of water** | **Volume of water (ml)** |
| liquid |  |
| solid |  |

Present your results as a line graph: * Add a title to the graph.
* Add a title to the X-axis.
* Add a title to the Y-axis.
* Represent your results on the graph as two dots, then join the dots together with a line.
* Optional: find a team that started with a different volume to you and add their data to your graph in a different colour.

Graph title:

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| --- | --- | --- | --- | --- |
|  Y-axis title:  |  |  |  |  |
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|  |  |  |  |
|  |  |  |  |
|  | liquid | solid |  |
|  | X- axis title: |  |

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| **What claim can you make about water volume as a liquid and a solid?****What evidence supports your claim?** |
| **Draw a diagram to explain how freezing and thawing of water can cause weathering of rocks** (freeze-thaw weathering) |