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.   |  |  | | --- | --- | | **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:   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Y-axis title: |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  |  | |  | |  | | |  | | 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) |