



Highly Commended

# Crystal Investigation

## Year R-2

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School



# Logbook - crystal growing.

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Hypothesis:

will a crystal grow best on a string or without a string.

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0041 004



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13 June.

Prepared the alum solution as directed

Prepared 3 glasses:

- 2 strings suspended from a stick

- 1 string suspended

- no string suspended

Poured in the solution



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14 June

1 crystal was formed  
in the floor of the 2-string  
glass - smooth & diamond

1 crystal was formed  
in the floor of the no-string  
glass - rough & bumpy

No crystal in the 1-string  
glass



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14 June

Collected the good crystal  
& suspended on a string  
with a knot

Collected the bumpy crystal  
which broke, suspended  
part of it on a string with  
a knot.



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The 1-string glass finally  
has grown a large  
triangular crystal on the  
floor.

The other 2 glasses continue  
to grow & many small  
crystals are forming in  
the base & on the strings.



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20 July

The crystals on the strings have continued to grow, covering the string & knot. The smooth crystal has grown the most. seed crystals have covered the base of the glass & the string. The large triangular crystals continued to grow.



20 July

Decided not to try to detach seed crystals from the string at the top/bottom of the suspended crystal due to risk of breaking.

Turned over the large triangle crystal. For some reason no seed crystal in this glass



5 August.

Removed the large broad crystal as it is the most uniform & has grown close to the edges of the glass. This is the crystal to enter in the competition. Left others to continue growing for fun.

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Diagram of crystal

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Weight of crystal

10 g

Conclusion

The crystal that  
grew the best  
grew without a  
string

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