



Prize Winner

Crystal Investigation

Year R-2

Clara Stutterheim

Highgate School





Log Book

Student(s) Name(s) Clara Stutterheim

Year Level Reception

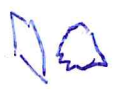

School Highgate

Question:

How big can I grow
my crystal

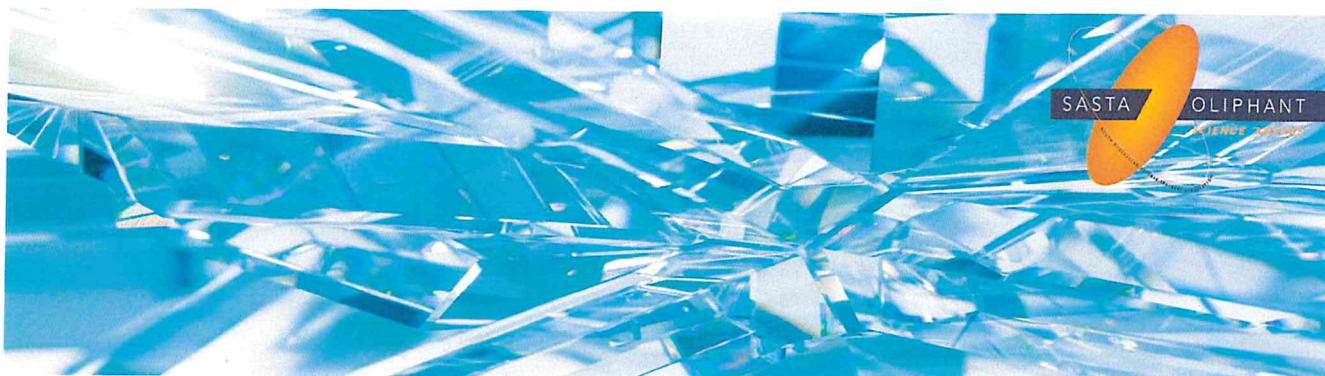
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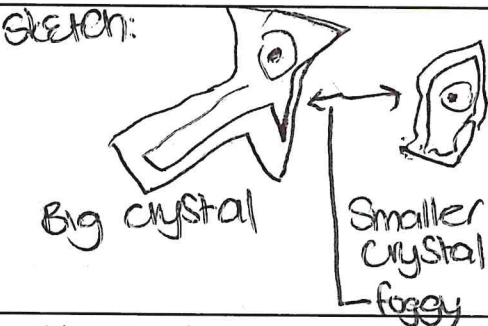


Date/Time	Descriptions of what the student(s) did, problems encountered and solved	Crystal characteristics	Signed
<p>16/04/23 15h00</p>	<p>We prepared a hot We measured 30g potash We added hot water I added the potash I helped to filter it.</p>	<p>white water</p>	<p>CP</p>
<p>17/04/23 20h00</p> <p>19°C</p>	<p>Lots of crystals grew My dad helped me pick the best crystals. We chose 4. I took out the crystals with a plastic spoon My mom measured marked the water level</p>	<p>Lots of different sized crystals</p>	<p>CP</p>
<p>29/04/23 19h00</p> <p>22°C</p>	<p>My crystals are growing! We removed the small crystals growing in the solution.</p>	<p>There are 2 crystals. One is almost like a diamond.</p>  <p>one is almost like a hexagon*</p>	<p>CP</p>
<p>29/04/23 15h00</p> <p>17°C</p>	<p>My dad helped me dissolve the other crystals to mix back in. My crystals are growing I drew my biggest crystal.</p>	<p>I counted 6 corners and 6 sides</p>  <p>As big as my thumb nail.</p>	<p>CP</p>

* my dad taught me that a 6-sided shape is called a hexagon.

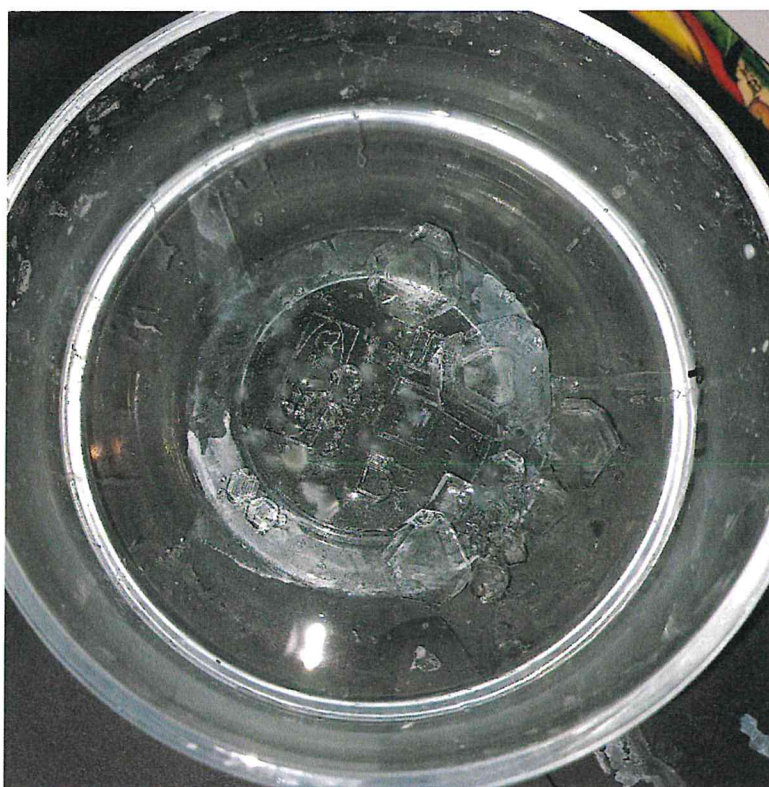
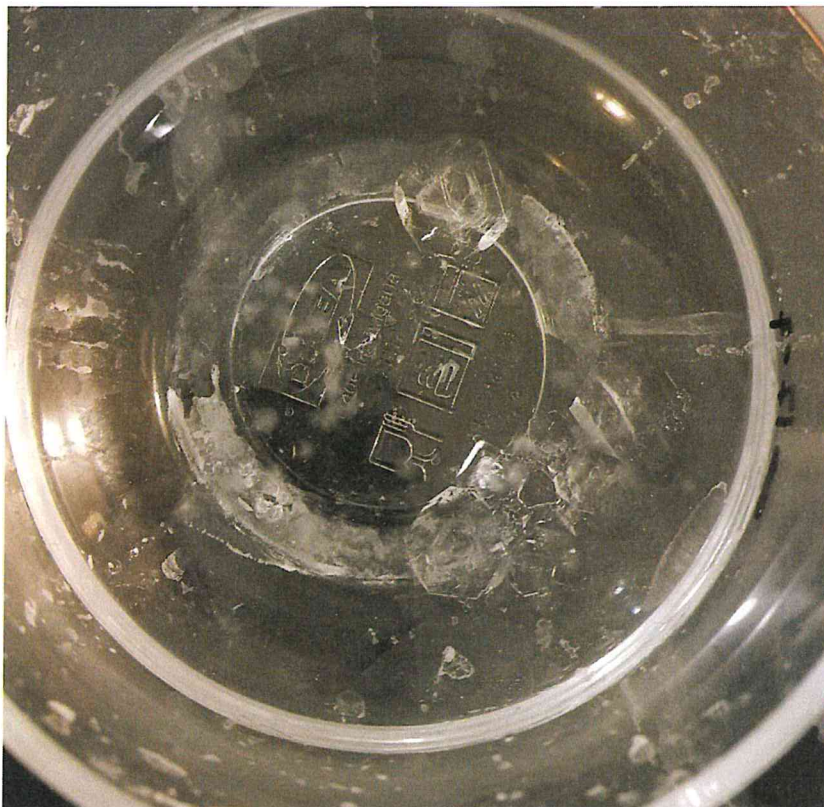
I can see through the middle of the crystal. There are some cloudy bits.



Date/Time	Descriptions of what the student(s) did, problems encountered and solved	Crystal characteristics	Signed
8.05.2023 19h45 14°C	<p>Checked crystals one of them is so much bigger.</p> <p>I like the smaller crystals The mixture looks lots clearer and a little foggy (sediment) Potash now</p>	<p>The crystals almost looks like a hexagon.</p> <p>Some of the crystals looks foggy. Some of the crystal looks like an ice-block → you can see through some of it and some is foggy. The little crystals are clear</p>	
	<p>Sketch:</p>  <p>Big crystal</p> <p>Smaller crystal</p> <p>foggy</p>		
26 May 2023 19h00 14°C	<p>Checked my crystals. It has been a while. There are baby crystals too. The solution is still over the original line marked on the bowl.</p>	<p>How big can the crystals get? Why do they need so much space?</p>	
28 May 2023 18h15 17°C	<p>I looked at my crystals I was very careful The big crystal has no grown much. There are 4 main crystals and some small crystals. There is some stuff in the solution. adult crystal</p>	<p>mommy crystal grandpa crystal baby crystals and a baby</p>	

It looks like fluff and is light white.

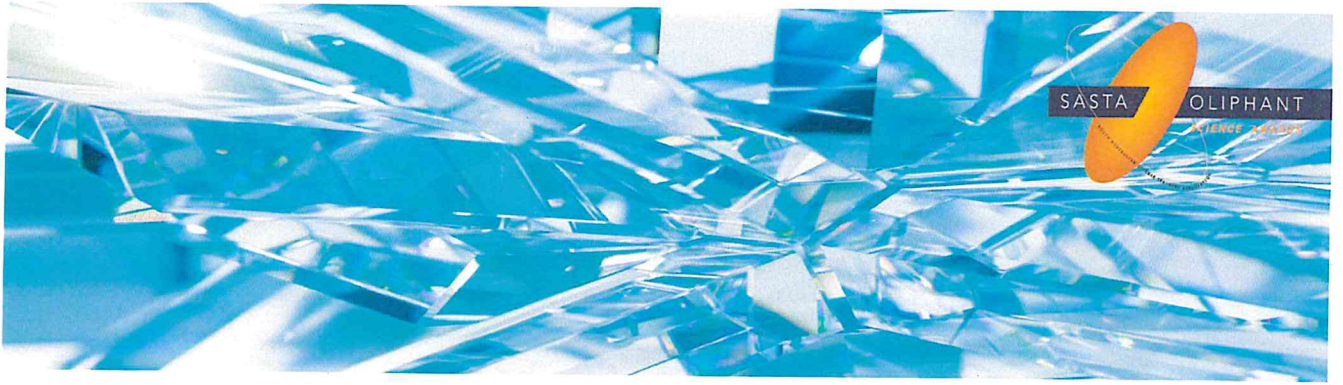
28 May 2023





Date/Time	Descriptions of what the student(s) did, problems encountered and solved	Crystal characteristics	Signed
11 June 2023 12h00 16°C	Almost spilled my crystal water when carrying it to the table - thank goodness nothing spilled! The water level has dropped. There are 4 main crystals and lots of smaller ones.	My crystal is see-through and foggy in the middle	CLARA * * ☺ ☺
19 June 19h00	The water has funny white things floating in it. We will filter it one last time We used a tea strainer as we ran out of filter paper		
3 July 18h00	We are going to measure my crystals	1. 24mm 2. 21mm 3. 16mm 4. 15mm 5. 9mm	
	Conclusion: I grew a 24mm crystal crystal	CLARA *	

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Conclusions : Clara grew a 24 mm crystals.
She thinks all her crystals are
the best.
It was hard to keep the mixture
clean.

Acknowledgement of Help/Resources

Assistance by parents - Peter and Catherine Stutterheim

Assisted with reading of instructions

Writing observations

using the stove to heat up the solution

Materials provided by Highgate Primary

Instructions to make crystals ponded

by Highgate