



Prize Winner

Crystal Investigation

Year 5-6

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..... 6-5.....

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Introduction

We are doing two crystals: the first one will be clear and kept in the dark and the second one will be coloured and kept in the light.

Question

~~How much alum are we going to~~
~~100K?~~ Which one is gonna
going 100K better?

Prediction

We predict that the clear one will be bigger and sharper than the other one.

Materials

Water in a temperature of 60° to 70° .

alum.



Sea crystals.

beaker.

Method

We got 4 glass beakers then we put distilled water in. After we dissolved the alum in it for one week then filtered it.

Crystal Observation				
light.....	dark.....	
	Width (mm)	Weight (g)	Width (mm)	Weight (g)
Week: 4	approx 5.80	0.56g	approx 5.80	0.49g
Week: 5		0.45g		3.04g
Week: 6		0.45g		3.87g
Week: 7		1.00g		5.23g
Week: 8		2.41g		6.57g
Week: 9		2.94g		8.22g
Week: 10	21.08	4.28	26.2g	8.17g

Results	
.....light.....dark.....
Photo 	Photo 
Clarity Least Good <u>Best</u>	Clarity Least <u>Good</u> Best
Size21.08..... mm 4.28.....g	Size26.2g mm 8.17.....g

<p>Observations</p> <p>The crystal that was kept in light grew slower, However it is clearer and it has sharp edges. The light crystal is smaller but smoother.</p>	<p>Observations</p> <p>The crystal that was kept in dark is way bigger as it grew really fast. But it has some jagged edges.</p> <p>The big crystal was not smooth.</p>
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<p>Conclusion</p> <p>The one that looked better was the one that was kept in the light.</p>

<p>Problems and Improvements</p> <p>The problem that we found is that its hard to keep the cupboard opened all the time to keep the the crystal in light.</p>
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