



Prize Winner

Crystal Investigation

Year R-2

Remy Durham

Annesley Junior School



Crystal Investigation Logbook

Student: Remy Durham

Year Level: Year 1

School: Annesley

Mr. Crystally

Hypothesis

It will be:

• diamond shape

• 40mm

• smooth

• Cleeh

• 8 Edges

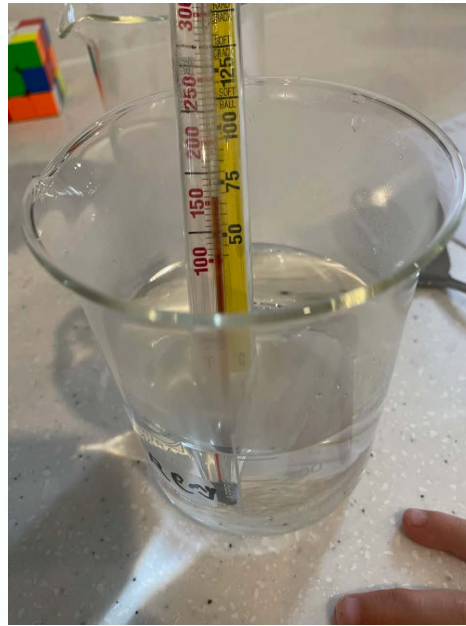
It will grow slow

Method

1



2



3



4



5



6



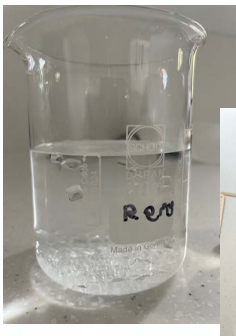
Also see
Observations
below

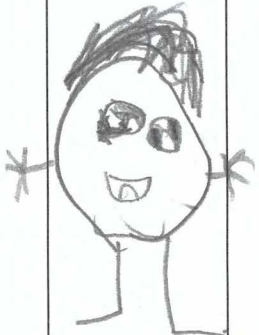
Equipment used

- Potash Alum
- demineralised water
- 2 Beaker
- Filter paper
- Paper towel
- Pipette
- String
- Sticks
- Glue
- tweezers

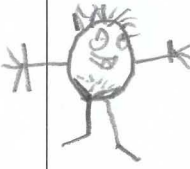
Observations

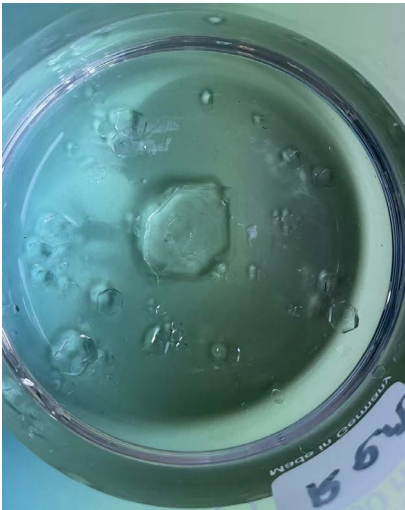
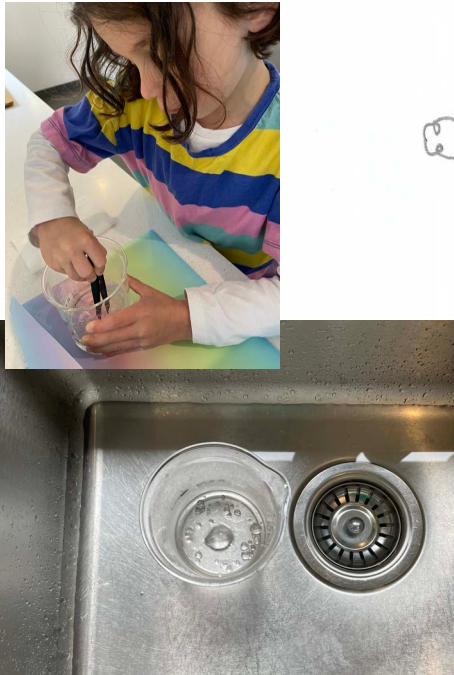
Date/Time	Description of: - what was done - problems encountered and solved	Crystal characteristics	Photos / Drawings	Progress	Signed
13/05 3pm	250 mL of water heated to 73°C. Teaspoons of potash alum: Filtered into the other jar. We put paper towel and put it in the cupboard	crystals started to show	See Method section above for photos		RO
6pm					

Date/Time	Description of: - what was done - problems encountered and solved	Crystal characteristics	Photos / Drawings	Progress	Signed
14/05 2:30pm	I chose which ch + salt "I poured the solution to the other beaker. I glued the crystal to string but it fell off ☹️ I decided it on the towel bottom	 pyramids shiny clear	  	 	Ra
17/05 5pm	little crystals in the solution. hot on the Big crystal	tiny bit a lot			Ra

Date/Time	Description of: - what was done - problems encountered and solved	Crystal characteristics	Photos / Drawings	Progress	Signed
17/05 cont.	what might happen to the little crystals? +UPH Big Could this be a problem for your main crystal? NO "because I don't think the mini crystals will stick to the big crystal."				
22/05	little crystals sticking to Big crystal. "We poured the solution into the other beaker. We got the little crystals off the big crystal using tweezers. We put it in the other beaker"	A tiny Bit Big ef	   		Ra

Date/Time	Description of: - what was done - problems encountered and solved	Crystal characteristics	Photos / Drawings	Progress	Signed
27/05	we made more of the solution	it was big but hot growing to much			Ra
28/05	we swapped half of the solution				Ra

Date/Time	Description of: - what was done - problems encountered and solved	Crystal characteristics	Photos / Drawings	Progress	Signed
06/06		the same crystals at the bottom of the beaker are new			
19/06	We were getting the tiny crystals out of the beaker	It loot BIG			

Date/Time	Description of: - what was done - problems encountered and solved	Crystal characteristics	Photos / Drawings	Progress	Signed
16/07 After holiday	We took the crystal off the big crystal.	it is bigger it is a pyramid. there are a little of crystals attached.			Rd
23/07	it was stuck to the bottom of the beaker. We put hot water around the beaker to get it off.	see next page			Rd

Mr. Crystally





Results compared to hypothesis:

• diamond shd be

→ it is a pyramid

• 40mm

→ it is smaller: 24mm long
19mm wide
13mm tall

• smooth

→ yes ✓

• clear

→ yes ✓

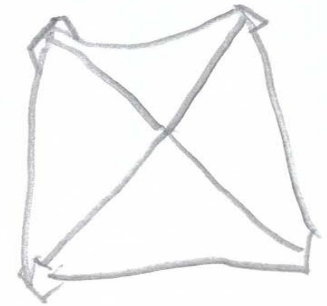
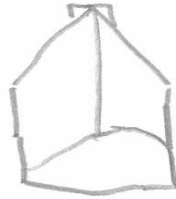
• 8 edges

→ 8 edges, 8 faces, 13 corners

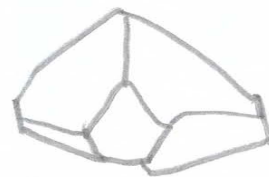
• glow glow

→ yes 71 days

Mr. Crystally



top



sides

Assistance

Researching the method.

Gluing the crystal to the string.

Scanning my logbook and adding photos on the computer.