

Prize Winner

Crystal Investigation Year 9-10

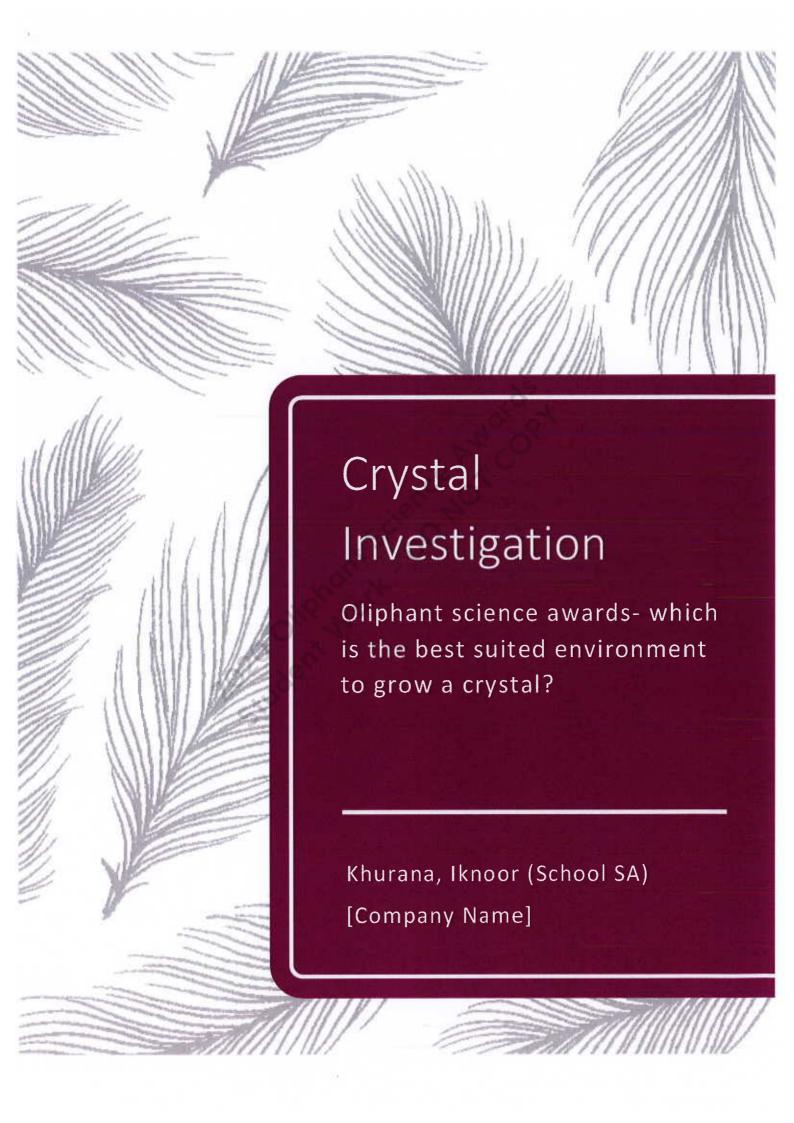
Iknoor Khurana

Brighton Secondary School









Iknoor Khurana Crystal Investigation

CRYSTAL INVESTIGATION

INTRODUCTION:

The crystal investigation was started in week one of term two. Its aim was to find out which environment is the best to grow crystals in. The hypothesis was that the crystals in the esky would grow the best.

MATERIALS:

PART A:

- 1. 12 spoonsful of Alum (Aluminium phosphate)
- 2. 100 mL hot water
- 3. Thermometer
- 4. 4 petri dishes
- 5. Beaker
- 6. 4 Labels
- 7. Stirrer
- 8. Time needed: 20-30 mins

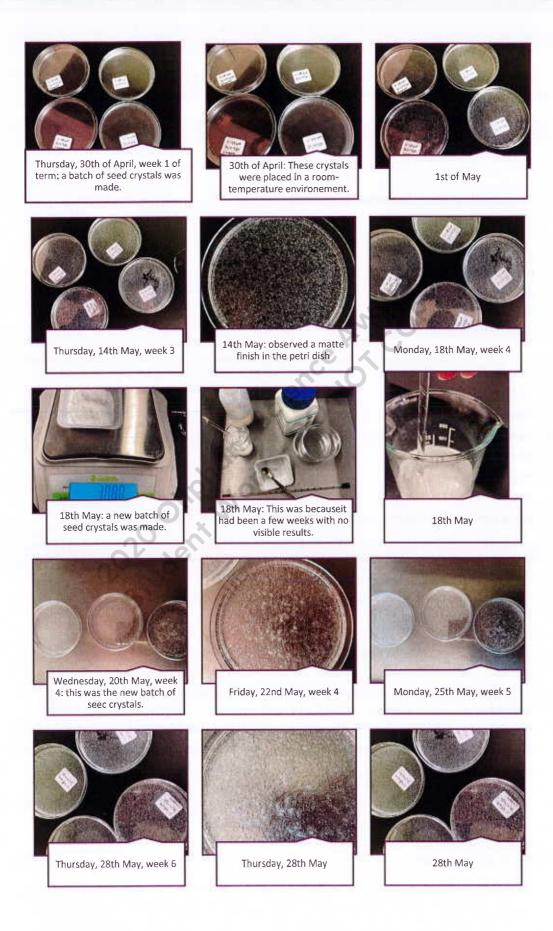
PART B:

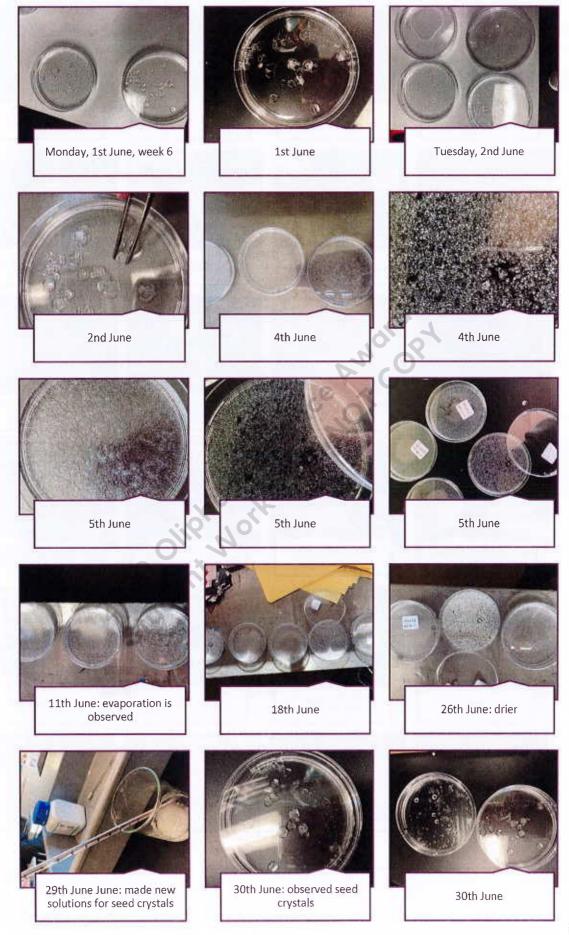
- 1. Alum
- 2. Clear string
- 3. Two beakers
- 4. Hot water
- 5. Popsicle stick
- 6. Tape
- on science Andropy of the state of the science Andropy of the state of the science of the scienc 7. Filter (not necessarily required: just to prevent dust falling in the beaker)

METHOD

- 1. Added hot water into a beaker.
- 2. Added small amounts of Alum consistently and stirred until saturated (about 35 degrees)
- 3. Poured into Petri dishes
- 4. Labelled the dishes
- 5. Left them for more than 24 hours, undisturbed.
- 1. As soon as an appropriate seed crystal was for formed, it was extracted.
- Added hot water into a beaker
- 3. Added small amounts of Alum consistently and stirred until saturated.
- 4. Poured the solution into another beaker, if there was not any Alum left at the bottom of the beaker, skipped this step.
- 5. Attached clear string with seed crystal on one end and popsicle stick on the other.
- 6. Placed the seed crystal in the middle of the beaker (was sure not to place it near the surface of the beaker otherwise the crystal could grow on the beaker walls).
- 7. Placed the beaker into a quiet place.
- 8. Monitored it requalrly.

LOGBOOK





Crystal Investigation Iknoor Khurana



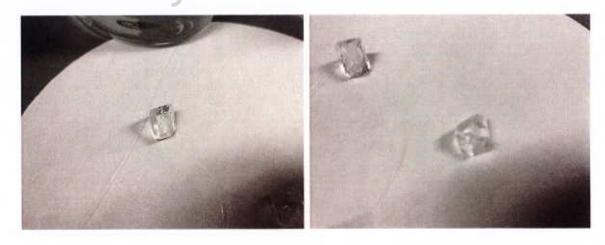
Crystal Investigation Iknoor Khurana



CONCLUSION

The aim of this experiment was achieved as this experiment showed that the best environment for crystal growing is room-temperature. However, this was not supported by the hypothesis as it was stated that esky crystals would grow the best.

The final product of this investigation is as follows: -



Acknowledgements:

> My school's late manager, Mus. Michiele Presonius has been an invaluable hulp to me these past few everks. I could not have done this without her.

2020 oliphonik science Awards Awards