***Day 1 - Jan 25th 2025***

* Bought supplies
	+ Bean haricot seeds (purple beans)
	+ Soil
	+ Cardboard pots
	+ Greenhouse trays
	+ Mister
* Planted seeds
	+ 16 pots with soil and one seed
* Placement
	+ 4 pots open air in natural light
	+ 4 pots in greenhouse natural light
	+ 4 pots open air artificial light
	+ 4 pots in greenhouse artificial light
* Watered
	+ Used mister to water all pot evenley (4 sprays each)
* Labeled plants
	+ Open air natural light (OA/NL)
	+ Greenhouse natural light (G/NL)
	+ Open air artificial light (OA/AL)
	+ Greenhouse artificial light (G/AL)

***Day 2 - Jan 26th 2025***

* Turned on light artificial grow light at 8:30am
* Take picture
* Observations

***Day 3 - 7 (Jan 27th - 31)***

* No growth
* Greenhouse pots soil more moist
* Here open air soil dry requires more water
* Changed watering for open air to 10 sprays and greenhouse to 6 sprays

***Day 8 - feb 1***

* The seeds started to come to surface in greenhouse artificial light

***Day 9 - feb 2***

* greenhouse artificial light
	+ started to see sprout in one pot
	+ Seeds continued to come farther above soil
* greenhouse natural light
	+ Seeds start to come to surface
* Open air natural light
	+ No change
* Open air artificial light
	+ Seeds started to come to surface

***Day 10 - feb 3***

* Greenhouse artificial light
	+ Pots 1 and 2 sprouted above soil stem in shape of arch
* Greenhouse natural light
	+ Seeds continued to come to surface
* Open air natural and artificial light
	+ Seeds are starting to come to surface

***Day 11- feb 4***

* Greenhouse artificial light
	+ Pots 1 and 2 steams have straightened and are standing up
	+ Pots 3 and 4 seeds coming to surface starting to see stem of 4
* Greenhouse natural light
	+ Seeds continued to come to surface
	+ Pot 2 starting to see stem
* Open air natural and artificial light
	+ Seeds are starting to come to surface
	+ Open air plants are very very dry

***Day 12- feb 5***

* Greenhouse artificial light
	+ Pots 1 and 2 grew a lot and shed seed shell and multiple leafs present now
	+ Pots 3 and 4 stems growing in arch above soil
* Greenhouse natural light
	+ Seeds continued to come to surface
	+ Pot 1 starting to see stem
	+ Pot 2 stem has grown up above soil and starting to straighten
* Open air natural and artificial light
	+ Seeds are at surface but not doing anything
	+ Open air plants are very very dry

***Day 13-feb 6***

* Greenhouse artificial light
	+ Pots 1 and 2 continue to grow and leafs are getting bigger
	+ Pots 3 and 4 stems have straightened out seed pods are still on seeds
* Greenhouse natural light
	+ Seeds continued to come to surface
	+ Pot 1 steam in arch
	+ Pot 2 stem has grown up above soil and starting to straighten
* Open air natural and artificial light
	+ Seeds are at surface but not doing anything
	+ Open air plants are very very dry

***Day 14-feb 7***

* Greenhouse artificial light
	+ Pots 1 and 2 continue to grow and leafs are getting bigger getting very very tall
	+ Pots 3 and 4 stems have straightened
	+ Stems turning purple
* Greenhouse natural light
	+ Seeds 3 and 4 are starting to see steam
	+ Pot 1 steam in tall arch shape
	+ Pot 2 is very tall and leaves are starting to show.
* Open air artificial light
	+ Seeds 1 and 4 are coming to the surface.
	+ Seeds 2 and 3 at the surface but not doing anything.
* Open air
	+ natural light no change

***Day 15 feb-8***

Missed pictures

***Day 16 feb-8***

* Greenhouse artificial light
	+ All pots are getting taller and the leafs are getting bigger
* Greenhouse natural light
	+ Pots 1 steam has straightened growing teller no big leafs
	+ Pot 2 very tall with big leafs above
	+ Pots 3 and 4 straightening out of the dirt and you can see the steam in a tiny arch shape
* Open air artificial light
	+ No change
* Open air nachural light
	+ No change

***Day 16 feb-10***

* Open air artificial light
	+ no change still not sprouted yet.
* Greenhouse artificial light
	+ Pot 1 getting very big leaves and a new branch started between the other leaf branches.
	+ Pot 2 3 and 4 tall leafs getting bigger.
* Greenhouse natural light
	+ pot two continents to grow number one starting to get big leafs 3 and 4 double the height. Open air natural light no change.

***Feb 13***

* Open air artificial light and nachural light
	+ no change still not sprouted yet
* Greenhouse artificial light
	+ All pots have big leafs and they growing to tall for the greenhouse enclosure
* Greenhouse natural light
	+ All pots are getting bigger leafs
	+ Pots 1 2 and 4 are about the same height and pot 3 is growing taller and leaning more. We think that the plants are leaning to reach the sunlight

***Feb 14***

* Missed photos

***Feb 15***

* Open air artificial light and nachural light
	+ Still no change.
* Greenhouse artificial light
	+ Leafs are very big
	+ All pots are growing a new branch between
* Greenhouse natural light
	+ Grow significantly taller and leaning a lot for light
	+ Another stem is growing in the middle of the leaves

***Feb, 24 final measurements***

* Measurements
	+ Hight
	+ Leaf size
	+ Root length
	+ Color

Final observations

* Open air artificial light and nachural light
	+ Still no change
	+ Seeds barley poking out of the soil and very dry.
* Greenhouse artificial light
	+ Leafs are very big
	+ Stems are very sturdy are starting to feel like wood
	+ Stems are purple
	+ The roots are coming to surface
* Greenhouse natural light
	+ Grow significantly taller and leaning a lot for light
	+ The third branch is growing a lot taller
	+ Leafs are smaller than artificial light