***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