

Gregor Mendel "Father of Genetics"

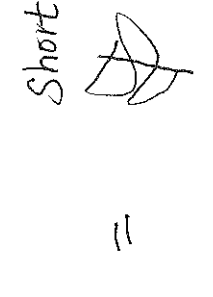
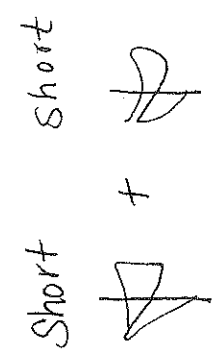
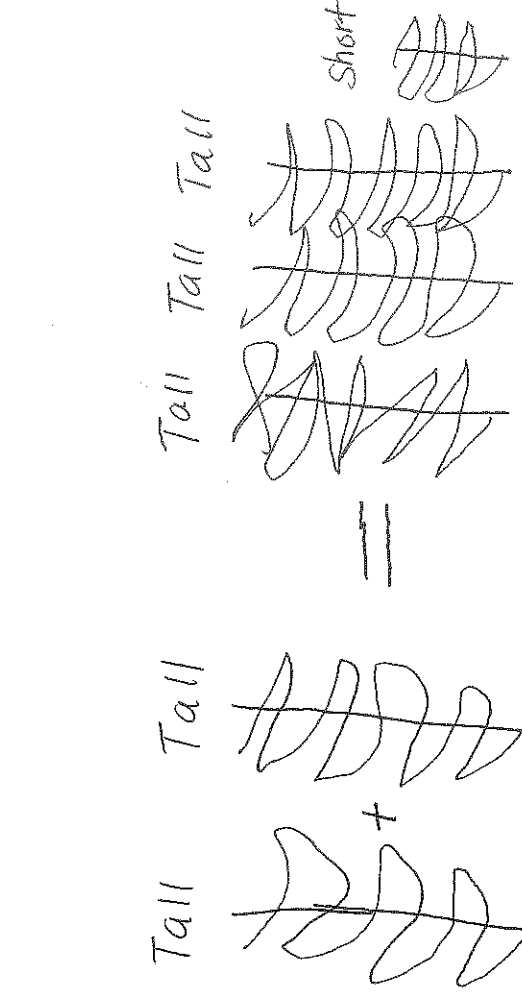
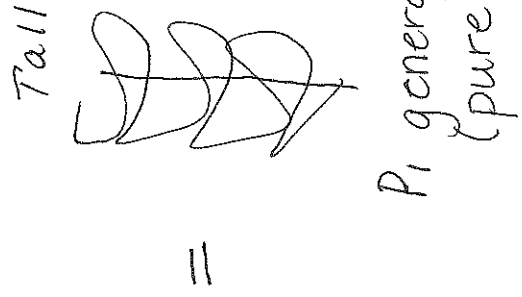
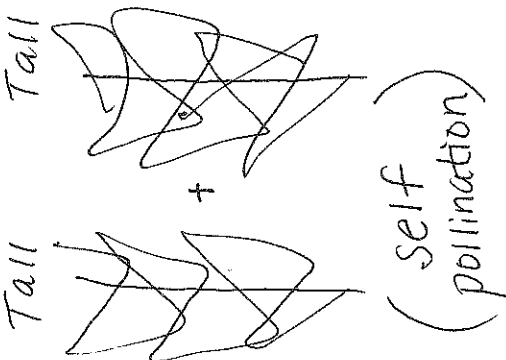
- worked with pea plants
- he noticed 7 characteristics, each with two variations
ex: tall plant, short plant

His Experiment

- Mendel produced pure plants through self-pollination (flowers from one plant pollinated by flowers from same plant)
- He called this the P_i generation
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- He then ~~crossed~~ ^{cross-pollinated} a pure plant for one trait with a pure plant for another trait
ex: tall plant with short plant
- These offspring were the F₁ generation
- Next he ~~crossed~~ ^{ed} two F₁ plants to create the F₂ generation

What did he notice?

One trait seemed to disappear in the F₁ generation, but it reappeared in the F₂ generation (This trait that disappeared is the recessive trait)



recessive trait = short
dominant trait = tall