

# Annotated Bibliography for Extended Essays in Group 4

## Research question:

What is the effect of different concentrations of 1-Naphthaleneacetic acid (0ppm, 10ppm, 50ppm, 100ppm and 200ppm) on the length (in centimeters) of adventitious roots of sweet potato plants (*Ipomoea batatas*) after three days?

**Independent variable:** The concentration of 1-Naphthaleneacetic acid in parts per million (ppm)  
**Dependent variable:** Length of adventitious roots measured in centimeters (cm)

## Rationale/Scientific context:

1-Naphthaleneacetic acid (NAA) is a synthesized plant hormone (auxin) commonly used in agriculture to promote root growth. The mechanism of NAA's promotion on root growth, in summary, involves the auxin triggering a transcription factor (ARF) which initiates a series of gene inhibitions and expressions, causing pericycle tissue in the root cylinder to re-enter the G1-S stages of the cell cycle and thus lead to cell division. The cellular division of pericycle tissue promotes the formation of adventitious root, a kind of lateral root that didn't initiate underground. Like other plant hormones, auxins are known to have different effects depending on the concentration and target plant tissue(s). By varying the concentration of NAA, the effect of the hormone on the roots can be investigated.

## Expected results (hypothesis):

It is expected, in general, that NAA will increase root length (compared to the control) after three days; however, it is also expected there will be diminished root lengthening with higher concentration of NAA due to an inhibitory effect when auxins are in high concentrations.

# Annotated Bibliography Extended Essay

**Daniela Niemeyer**



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training deficiencies bear some of the responsibility for the unfortunate behaviour of Canadian soldiers in Somalia

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table mutu baja tulangan mutu tulangan a kg cm<sup>2</sup> au kg cm<sup>2</sup> u 22 1250 2200 u 24 1400 2400 u 32

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