Experiment #2. How do concentrations of phosphates impact plants?

Components

- same sort of water plants
- sand/stones
- 20mg Potassium nitrate (KNO3)
- 0g, 3mg, 7mg, 50mg, 500mg disodium hydrogen phosphate (Na2HPO4)
- 11 spring water: volvic water

Experiment for 1 liter base solution

- 1. prepare 5 different media for your cultures: add Potassium nitrate and disodium hydrogen phosphate into water
- 2. Autoclave. Cool it down
- 3. Add Green algae culture and Cyanobacteria cultures. keep 3 weeks, inspect with a microscope every couple of days. Take pictures and compare your results, eg count the numbers of your cultures per qubic centimetre

For more information, see

https://www.researchgate.net/publication/277327137 Effect of Nitrogen on Growth and Lipid Content of Chlorella pyrenoidosa