

Pond in a Jar “Nutrient Overload” Preliminary Experiments

Experimental design considerations

- Vary only one factor across a set of samples
- No need to discern among fertilizer ingredients (e.g., phosphate, nitrogen)
- Identify location that is both protected and sunny (non-restrictive windows)
- Use identical/similar jars for each sample

Set 1 Vary Fertilizer quantity

Pond Water	Fertilizer (e.g., miracle grow)
250 ml	None
250 ml	¼ tsp
250 ml	½ tsp
250 ml	1 tsp

Set 2 Vary Fertilizer type

Pond Water	Fertilizer (1 tsp)
250 ml	None
250 ml	Miracle grow
250 ml	cascade
250 ml	10-10-10

Set 3 Vary Water

Water	Fertilizer (e.g., miracle grow)
250 ml tap water	1 tsp
250 ml pond water	1 tsp
250 ml pond water: tap water (50:50)	1 tsp
250 ml pond water: tap water (25:75)	1 tsp