



# AquaRocks Experiment



## Visual Root Growth

### Problem:

What do roots look like when growing?

What is the impact of (nutrients, water type, light or contaminants) or seed germination and growth?

### Hypothesis:

To be determined based on variables used in the experiment. For example, seeds grown in darkness will sprout sooner than those grown in full light. Or seeds grown with nutrients will have higher and faster germination rates than those grown without.

### Equipment:

Package of seeds (any variety will work but best with larger seed types like pumpkin, watermelon, sunflower or squash)

AquaRocks

Clear containers (glass or plastic jars with lids work best)

Water, distilled or tap

Centimeter ruler

### Methods/Procedures

1. Add 1/2 tsp of AquaRocks to clear container.
2. Fill with water.
3. Let AquaRocks expand for 1 hour and drain excess water .
4. Push 1-2 seeds down into the center of expanded AquaRocks.
6. Set container in dark place (if measuring the effect of light levels, place container in appropriate area
7. Check on seeds every day to measure time of initial germination (seed sprouting), germination rates (number of seeds that sprout) and/or use ruler to measure size of sprout.

NOTE: This experiment can be performed comparing the growth rate versus any number of variables including nutrients, water types (hard, soft, distilled, different light levels (full light, partial light, darkness) or the addition of contaminants like sodium (table salt).

This experiment can also be performed using MegaGro Concentrate to compare seed germination rates using Gibberellic Acid.