

**Title:** The Effect of Vortexing on Seed Sprouting

**Hypotheses:**

**Alternate:**

*Vortexing the seeds before planting will positively influence the speed at which the seeds will sprout.*

**Null:**

There will be no significant difference in speed of sprouting between seeds that were vortexed and ones that were not vortexed.

**Independent variable:** Type of Vortex Treatment

<b>Vortex Treatment?</b>	Vortex with only seeds	Vortex with sand	No treatment
<b># of trials (seeds)</b>	12	12	12
<b>Control?</b>	No	No	Yes

**Dependent variable:** Time (in seconds) for seeds to sprout (reach a height of 1 cm, 2 cm, 3 cm, etc.)

**Operational definition of dependent variable:** Time for seeds to sprout = [Seconds recorded before a certain height]

**Constants:** Soil (potting soil)

Water

Sunlight exposure (rotate positions every week)