# **Tomatosphere Experimental Design**



### Group members and contact information:

cs:
As a group decide how you are doing to conduct your experiment.
Decide what vessel you are planting your seeds in, how you will get it, how often you will check, water, etc.  ons to consider:
Are you planting all seeds together?
Are seeds begin exposed to the same amount of light?
Will the seeds be in the same place for the duration of your study?
How will you ensure proper care? (light, water, etc.)
How will you delegate responsibilities?
If you are splitting up your seeds, how can you ensure your variables are minimized?
How and who will be collecting your daily data?
How will you collect data on weekends? (yes experiments span weekends-they don't take breaks)
ng prep: Planting: De the containment vessel you are planting in, why you chose this and your plan for obtaining said
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### 2. Your seeds:

Describe *how* and *where* you will be planting your seeds. Remember you can plant in class, but must chose at least one additional location for your seedlings.

#### 3. Light and water:

Describe your plan for illumination and water.

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### 4. Planting prep needs:

Identify what materials you need in order to begin your investigation.

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our te	<b>nvestigation:</b> Fam will have to design a 30 day test to measure the germination of your seeds. You will be ring/monitoring the following:
	Temperature
	General appearance (healthy, wilty, spindly, limp, etc)  O Be consistent in your language and descriptions!
	Condition of soil (dry, wet moist)
Weekl	<b>,</b>
	Height of plant
	Number of branches
Γhroug	thout:
	Watering
	Fertilizing
	Appearance of first flowers
	Number of flowers
	First appearance of fruit
	First mature fruit
1.	What specific condition are you focusing your research on?
2.	Construct a testable research question regarding your seeds and planting conditions:
3.	We predict:

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- 4. Describe your plan for data collection:
  - a. Specifically state responsibilities and frequencies.
- b. Create a description and key to EACH of your word descriptors to indicate how you define each plant. For example, Wilty: our description of a wilty leaf.

5. Describe individual roles:

6. How will you incorporate the data from the seeds planted in class?

7. How will you report your findings?