

Earth v the International Space Station Agriculture Contest

*Grow your way to Cosmosphere
Aerospace Camp!*

Students fourth through twelfth grades are invited to take on the ISS in a competition to grow the most food within a one cubic meter garden space.

A winner from each grade category below receives a camp package for 2019 summer camp season and will be recognized at the Cosmosphere this fall.

Going into 4th - 6th Grade
Going into 7th - 8th Grade
Going into 9th - 12th Grade

Contest starts May 1 and runs through September 30, 2018.



We will be sharing our results with our Kansas Astronaut Col. Nick Hague while he is on the ISS!

How It Works:

Any student who wants to participate needs to carefully read the rules, set-up their garden, collect the required data, and turn in all results to the Cosmosphere at education.cosmo.org on or before Sept 30, 2018.



Earth v Space – Agriculture Contest




General Contest Rules:

- 1) Contestants must be in one of the following grade categories:
 - Going into the 4th - 6th Grade
 - Going into the 7th - 8th Grade
 - Going into the 9th - 12th Grade
- 2) Contestants must keep an accurate weekly journal that includes at least one photo per week.
- 3) Contestants must have entries emailed to the Cosmosphere by September 30th. Send to: Education@cosmo.org
- 4) To be a possible winner, the contestant must grow more edible food product than the International Space Station crew.
- 5) Winning totals will be calculated by the amount of edible food product, waste product, design, and reporting.
- 6) Winners will be notified by October 15th.
- 7) Questions can be directed to Education@cosmo.org

Rules for Growing Plants:

- 1) The plant growth area is not to exceed **one cubic meter**. Contestants must include the plans of their garden and images that show measurements.
- 2) Plant vines, leaves, and fruit are not allowed to wander out of the competition parameter. Everything must be contained within the cubic meter except the light source.
- 3) Any type of **growth medium** is allowable from hydroponic or aquaponic systems to soil.
- 4) Any type of **light source** may be chosen. Contestants may use different types of grow lights or the sun itself.
- 5) **Plants must be grown from seed**. A weekly photo journal of the sowing of the seeds and the plants' progress is required. A variety of plant types may be chosen or just one.
- 6) Any type of **fertilizer** may be used.
- 7) Competitors will have up to **16 weeks** to grow and catalog the edible parts of the plant by weight. In addition, they will need to catalog the "waste" or non-edible parts of the plant during the given duration.
- 8) Contestants need to catalog by weight each week how much edible matter was harvested and how much waste matter was produced in the cubic meter.
- 9) Contestants may **harvest** crops any time during the 16 week time period.

Growth Journal Example

Date	Type of Plant	Harvest Weight	Waste Weight	Activity	Photo
5/7 Week 1	cucumber	xxxx	xxxx	Planted 28 Seeds	
5/14 Week 2	cucumber	xxxxx	xxxx	Leaves emerging	
6/4 Week 5	cucumber	xxxx	xxxxx	Fertilized Using Compost	
8/6 Week 14	cucumber	2000 grams	250 grams	Harvested	