

Application Form

—Ideas for "Try Zero G 2015" by JAXA Astronaut Yui—

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Activities for Astronaut Yui to conduct in Kibo.
(Please add pictures/images, if needed.)

Subject: Can We Make Wind in the Space?

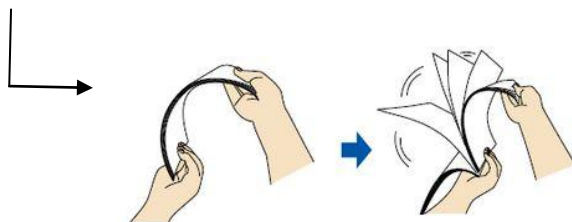
Reason: We would like to research this question because people do not usually have a chance to go into space. When people want to know something about it, one answer that comes to mind is usually the fact that it is pitch black, big, and cool. However, a lot of people miss some normal facts such as the existence of wind. So, I went out and asked some of my classmates about the possibility of wind existing in zero gravity or in space. The answers are varied. Some said “yes,” some said “no,” and some people said “maybe, but how do you prove that it is present? “ We finally got to do a bit of research and found that space does not have wind! This begs the question: can we make wind in space?

Methods

1. We can use any materials in this experiment and can try flowing anything into the air. Let’s say we will be using metal pieces in this scenario.
2. We will fan using different variables¹, in this case one large piece of paper (background sheet) to create wind to the direction of the things that are floating.
3. We can then observe if those metal pieces driven by the fanning of the paper move by the force of moving particles of dust.

¹ VARIABLES

- + one large piece of paper (background sheet)
- + one piece of origami paper
- + a few pieces of origami paper



Credit: <http://www.fujitsu.com/emea/products/support/knowledgebase/howto/batch-preparation.html>

Outcome of the activity and the reasons.
(Please add pictures/images, if needed.)

Hypothesis

Personally, we think it would move because when we fan the paper against those metal pieces, wind will be slowly be created, making them move, although it will be hard to control its direction afterwards. This experiment will show that we can indeed create wind in the space if we use an item that can stimulate movement of particles out there. It may not be wind particles but dust particles may move and create the wind-like movement. We think that with different types of papers, the experiment can result differently contingent in each variables.