



NASA Aeronautics 2023 Dream With Us Design Challenge Rules

The Dream with Us Challenge opens March 1st, 2023. The submission period begins **March 1st, 2023**, and concludes on **May 15th, 2023, at 11:59 pm EDT**. Schools, organizations, and community groups should communicate to parents and guardians that submissions are limited to one entry per team. Entries must be submitted through the design challenge web portal: <https://stemgateway.nasa.gov/public/s/course-offering/aOB3d00000zjNv/dream-with-us-2023-design-challenge>. If you are an educator who would like to submit a team's entry, you may do so.

Eligibility

The contest is open to all children in grades 6–12 who are attending public, private, parochial, and home schools in the United States of America and children of U.S. military members stationed overseas. There will be two separate judging categories: one for participants ages 13 to 15 and one for participants ages 16 to 18.

Submission Requirements

- All submissions must be the **original work** of the student teams.
- Students must be currently enrolled in grades **6 – 12**.
- The challenge is limited to **one entry** per team.
- Challenge submissions can be:
 - Commercial
 - Infomercial
 - Brochure
 - Website
 - Radio ad
 - Other
- **Regardless of how you choose to communicate your idea, you must include a marketing plan that sells your aircraft to NASA experts.**
 - Image of the new aircraft with an N-Number, a logo, and paint scheme
 - Energy consumption data (current design vs. new design)
 - Design balance: energy usage (sustainability vs. economy vs. flight enjoyment)
 - Environmental impact from multiple aspects (ex. humans, animals, plants, etc.)
 - BONUS: explain synergistic technologies (show the advantages and disadvantages of elements of the new aircraft, point out how different parts of the design work together and/or conflict with one another)

Submitting Entries

- **Each entry** must include a signed **submission form completed by a parent or legal guardian** for each student. If a **teacher is submitting a team's artwork**, the submission must include the **signed forms for each student** with the entry.
- Artwork should be **submitted as a high-resolution image** of the student's original artwork and must be submitted in **.jpg or .png format** (minimum of 2,400 pixels on the longest edge).
- When **submitting written work**, including any presentations, it should be **typed and submitted as a PDF**. PDFs are **limited to 10 MB**.
- **Any videos or other media** besides artwork or written work needs to be **uploaded to YouTube with a "watch URL"** link shared during submission.

Judging and Criteria

- Contest officials will select the top submissions and present them to a panel of NASA judges. Judges will make selections based on the above-mentioned criteria to determine which projects will be recognized.
- The following criteria will be used to evaluate each entry:

- Communication
 - How well does the team communicate their marketing plan?
 - Are enough details provided to understand the team's message?
- Impact
 - Does the entry impact the target goal of sustainable aviation?
 - Does the submission provide details identifying how the concept directly provides a benefit?
 - Does the submission develop a logical and workable solution and approach to solving the problem?
- Practicality
 - Has the team provided details that identify how the improvements, changes, and/or related activities can be implemented in a practical manner?
 - Does the submission utilize existing technology or identify technology required to implement the solution?
- Originality
 - To what extent is this concept new, or in what way is this an innovation on an existing idea?
 - How is this concept unique?

Important Note

All factors are important and will be considered in the evaluation process.

Recognition

All participants will receive a code that allows them to earn an “endorsement stamp” in the NASA Aeronautics Flight Log, which is available at <https://www.nasa.gov/flightlog/>. In addition, select projects will be chosen to be highlighted and showcased through NASA social media, on our website, and in other locations as appropriate. Certificates and other recognition for select projects will also be made available.

A virtual awards ceremony will be scheduled prior to the public announcement of selected projects and all participants will be invited to attend using the email provided during registration. Selected designs will be announced on this site no later than June 1st, 2023. Again, thank you for participating in the Dream with Us Challenge!