

# 2023 High-Altitude Balloon Challenge Deliverable Dates and Links for Submissions

***The Challenge requires several projects to be submitted for judging for the ultimate Col Kittinger Cup and a \$5,000 award grant. Those with top scores in all categories will be judged for the top award. Several category awards will also be presented with unit grants provided by the [Air & Space Forces Association](#).***

***Read all directions and scoring rubric guidance carefully to ensure each category meets highest standards. Pay close attention to the "Go-NO-Go" section at the top of each category's scoring rubric.***

- 1-** Prior to the high-altitude weather balloon flights in Indiana on 5 August (or back-up launch date of 12 August) each squadron team is directed to create, pack, and ship one or more science experiments inserted in the 50ml Challenge capsule, not weighing more than 40g, in the shipping boxes and labels provided to each team. (See test capsule instructions above.)
- Ship date on package cannot be later than 22 July to have the teams' experiments accepted in Indiana for the actual launch.
  - Shipping labels will be provided to each team in their original HAB capsule box sent to them after registration.
    - **If the pre-prepared FedEx shipping label is MISPLACED/LOST, the team is responsible for shipping cost. That address for shipment by 22 July is:**  
Anderson Prep Academy Cadet Squadron  
Attention: Lt Michael Dean  
101 West 29<sup>th</sup> Street  
Anderson, IN 46016  
765-649-8472

- 2-** By **22 July**, the teams are also directed to submit a 2-2.5 minute pre-launch video - made by the cadets - to describe all science experiments included in the capsule. This should be submitted via the [pre-launch video Google doc submission form](#). Any accompanying music guidance is provided in the expectations and scoring rubric, below.

- **Pre-launch video expectations and scoring rubric**
  - *Following the "exemplary scoring rubric column" info will ensure all criteria of the pre-launch video is covered*
- \$200 grant for winning pre-launch video

- 3-** By **22 July** each squadron is directed to submit ***EITHER (not both)*** a hand drawn or digitally-designed mission patch via the [mission patch Google doc submission form](#). Submit a photo or pdf of the mission patch. Digitally-designed patch ***cannot*** be AI generated. The new CAP logo is required.

- **Mission patch expectations and scoring rubric**
  - *Following the "exemplary scoring rubric column" info will ensure all criteria of the mission patch is covered*
- \$200 grant each for winning hand-drawn mission patch and for winning digital mission patch

**4-** After the capsules' August HAB flight in Indiana, the boxes will be returned to the squadrons within 5 days.

- a. The squadron teams will then work on the analysis of their experiment(s).
- b. By **2 October**, the squadron team will prepare **ONE** after-action slide report of their **best science experiment** to be submitted via the [science slide Google doc submission form](#).

**IMPORTANT INFO to ensure science slide fills all requirements:**

- **Final science experiment slide for one best team experiment expectations and scoring rubric**
  - *Following the "exemplary scoring rubric column" info will ensure all criteria for the science slide is covered*
- Can be prepared and submitted on a PowerPoint or pdf slide
- Should include background, hypothesis, methods/materials, procedures, results, data analysis, conclusion, impact and possible improvements, and references with squadron charter number/name--- much as sample slide below
  - [SEE EXEMPLARY SAMPLE SCIENCE SLIDE HERE](#)
- \$600 grant for most innovative science experiment and most well-done slide (the most important aspect of the HABC to Col Kittinger)
- \$300 grant for most creative science experiment slide

**5-** By 2 October, a culmination "documentary-style" 4-5 minute video - made by the cadets - is to be submitted via [post-launch video Google doc submission form](#) that describes the entire Challenge process: the included experiments and associated results after the HAB launch; any collaborative efforts made with other groups/organizations/etc. (universities/schools, medical or science orgs, or other CAP units); how the Challenge was beneficial to the cadets; and what the squadron would do with a \$5,000 grant, if it was won. (Music guidance for YouTube video found in expectations, guidance, and scoring rubric, below.)

- **Post-launch documentary video expectations, guidance, and scoring rubric**
  - *Following the "exemplary scoring rubric column" info will ensure all criteria of the documentary video are covered*
- \$500 grant for winning video

*Additional category winners will be selected by the judges and grants provided by the AFA.*