

NASA

TECHRISE

STUDENT CHALLENGE



Challenge Overview

<https://www.futureengineers.org/nasatechrise>

The Challenge

If you are in sixth to 12th-grade at a U.S. public, private, or charter school, your challenge is to team up with your schoolmates and develop an experiment idea for one of the following test vehicles:

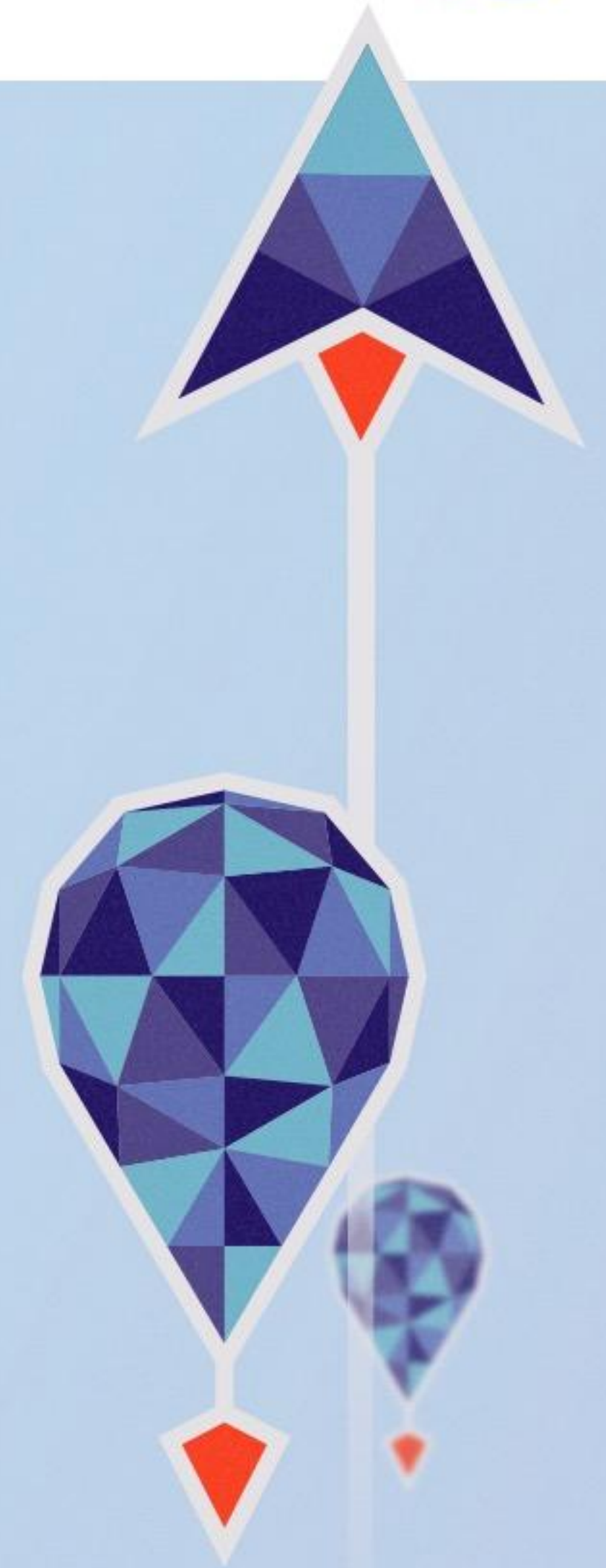
- Suborbital rocket with about three minutes of microgravity (i.e., weightlessness)
- High-altitude balloon with more than four hours of flight time at 70,000 feet, exposure to Earth's atmosphere, and views of our planet

The NASA TechRise contest aims to inspire a deeper understanding of Earth's atmosphere, space exploration, coding, and electronics

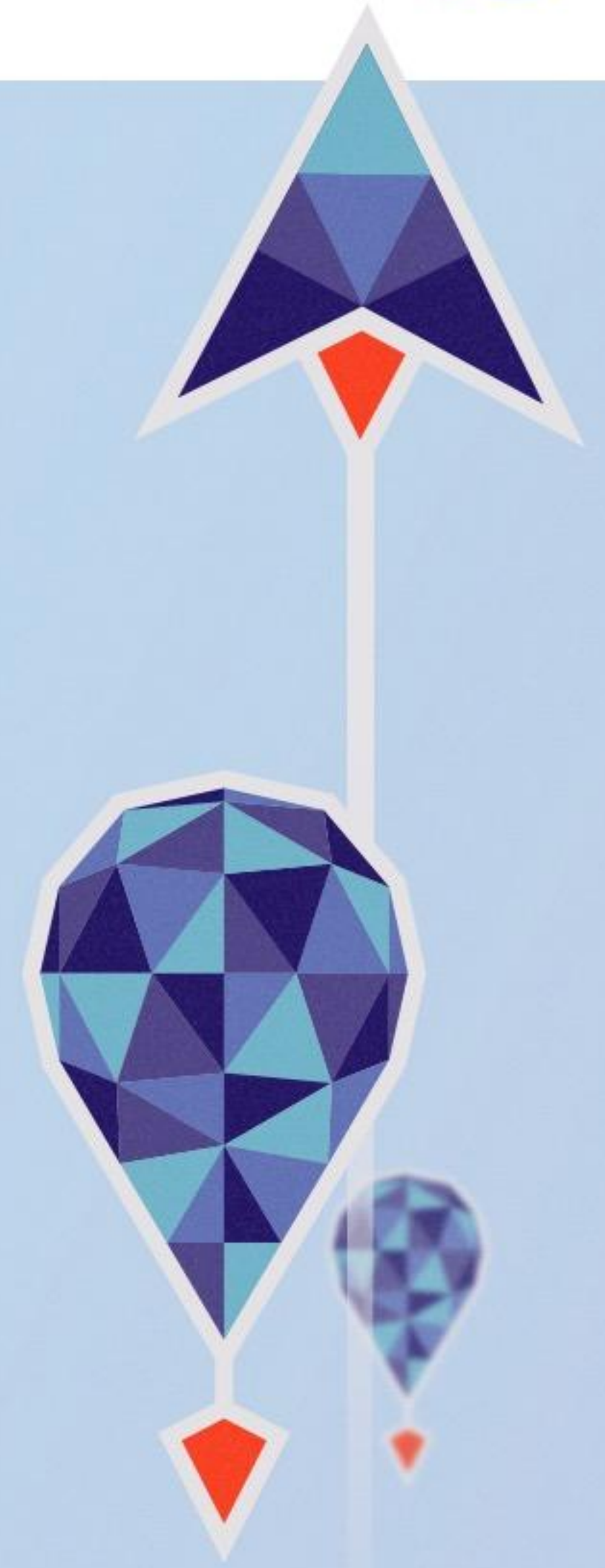


Rockets & Balloons

- Suborbital rocket with about three minutes of microgravity (i.e., weightlessness)
- High-altitude balloon with more than four hours of flight time at 70,000 feet, exposure to Earth's atmosphere, and views of our planet



Watch the Challenge Video!



Regions

- Teams will compete in one of 20 competitive regions

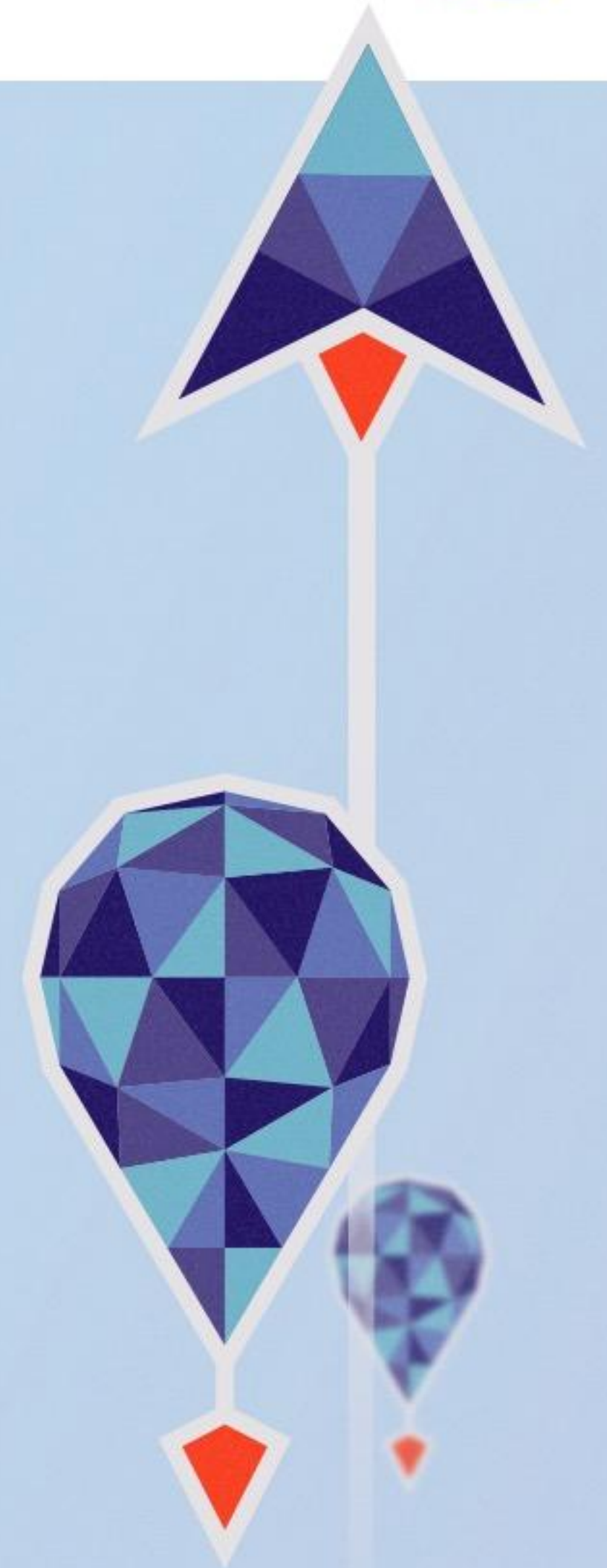


Prizes

Prize packages consist of:

- \$1,500 to build your experiment
- A 3D-printed flight box in which to build your experiment
- An assigned spot to test your experiment on a suborbital rocket or high-altitude balloon

The winning teams will also have access to technical support and office hours with Future Engineers experts when building their experiment



Proposal Overview - Due by Nov 3, 2021

- Proposal is written by the students and submitted by the teacher/educator. All proposals must include the following four sections:
- **WHAT** is your team's experiment idea?
- **WHY** do you want to propose this experiment idea?
- **HOW** will you build your experiment?
- **WHEN** will you complete the different phases of your experiment build?

