

High Altitude Balloon Merit Badge Assessment

Instructions: do each of the following and submit to your instructor.

- 1.) Identify and describe local, state, and federal regulations in regards to high altitude balloon flight in this area.
- 2.) Identify and describe the steps necessary to get authorization for high altitude balloon flight.
- 3.) Identify and describe requirements for pre-flight, in-flight, and post-flight in regards to local, state, and federal regulation.
- 4.) Work with one of the hard sciences departments (biology, chemistry, physics) to design and propose an experiment that would require high altitude flight. Include a full design of the experiment, including how it will be harnessed to the balloon, why high altitude flight is required, and what the goal of the research will be.
- 5.) Complete a full design of the hardware requirements for the flight, including budget.
- 6.) Complete the experiment, once approved.