



Mission Folder Checklist

Before beginning your Mission Folder, use this checklist to be sure that the project you are about to start will be a valid scientific investigation or engineering design project. Review this checklist **BEFORE** you begin any testing, experimenting, designing, etc. Below you will see (S) if that part of the question is for scientific inquiry using scientific practices or (E) if it is for engineering design.

- Our idea is relevant (you can explain why it is important to study and worth your time and effort).
- Our idea addresses a problem that affects our community (community can be defined as class, school, town, state, country or world).
- We do not already know the answer to the question we are asking (S) or the solution to the problem we are trying to solve (E).
- We will be able to test our hypothesis through experimentation (S) or by building and testing our prototype/model (E).
- Our project will result in quantifiable data (numbers) taken from direct measurements, or qualitative data (descriptive data) taken from observations, not just information we looked up in books, journals, online articles, etc.

Will your testing involve vertebrates (humans or any animals with a backbone)? In other words, will humans or animals be the subject of any type of testing (eating, drinking, pushing, pulling, running, lifting, taking a test under altered conditions, etc.)?

- YES
- NO

If you answered “YES” to the question above, you must upload a completed **IRB Approval** form (found in the competition rules section of the eCYBERMISSION website) to your Mission Folder **BEFORE** you begin your testing.

Will your project include a survey of any kind? This would be any kind of questionnaire (even a test or quiz) that will be given to humans during your investigation.

- YES
- NO

If you answered “YES” to the question above, you must upload completed **Survey Approval and IRB Approval** forms (found in the competition rules section of the eCYBERMISSION website) to your Mission Folder **BEFORE** you administer your survey.

Will your project contain any of the following safety hazards: open flame, microorganisms, biohazards, projectiles, chemicals, radioactive substances or other items banned by your school district?

- YES
- NO

If you answered “YES” to the question above, what precautions will be taken to deal with these hazards? What safety equipment will be required? Make sure your team uses proper safety equipment and precautions throughout design, testing, and experimentation. And that all safety precautions are described in your Mission Folder.