

Oregon Islamic Academy Science Fair Project Guidelines:

No actual experimentation is to start unless approval is given by your teacher.

All Experiments/Projects:

All students need to submit the following information about their proposed project topic by the deadline:

- Title
- Abstract
- Hypothesis (identify dependent and independent variables)
- Materials
- Procedure
- Bibliography including at least 5 references

Click [HERE](#) for the requirements of the INTEL Middle School MS Super EZ Form.

Experiments involving Hazardous Materials or Microbial Growth:

If the project/experiment involves the use of hazardous materials or microbial growth, please submit the following:

- Title
- Abstract
- Hypothesis (identify dependent and independent variables)
- Materials
- Procedure

PLUS a Risk Assessment that includes the following:

- Safety Precautions: how you will ensure a safe implementation of your experiment without harming yourself or your surroundings
- Proper disposal methods

Click [HERE](#) for the INTEL Risk Assessment Form.

Click [HERE](#) for more details about INTEL rules pertaining to the use of hazardous chemicals, activities, or devices.

Click [HERE](#) for more details about INTEL rules pertaining to potentially hazardous biological agents.

Please refer project to teachers Sahar and Cory to assess if independent approval is needed from an outside party specializing in Biology/Microbiology.

Experiments involving Human Subject/Vertebrate Experimentation with ISMET/OIA students & beyond:

If the project/experiment involves any kind of **interaction** with human subjects, please include the following:

- Title
- Abstract
- Hypothesis (identify dependent and independent variables)
- Materials
- Procedure

PLUS the following:

- Sample size
- Specs of population i.e. age group: youth ages 12-15 or adults ages 30+, children in 1st - 5th grades, etc.
- Mention that the data collected will be anonymous and unidentifiable
- Sample Consent form to use prior to experimentation

Click [HERE](#) for a sample INTEL Human Subject Consent Form.

Click [HERE](#) for the INTEL Human Participants Form.

Click [HERE](#) for more details about INTEL rules pertaining to experimentation with human subjects.

Click [HERE](#) for more details about INTEL rules pertaining to experimentation with vertebrates.

Please note that observational studies in which no interaction takes place with human subjects AND no intervention occurs that affects behavior are able to use the MS Super EZ form with no outside approval necessary.

Please refer project to teachers Sahar and Cory to assess if independent approval is needed from an outside party specializing in Psychology/Counseling/Medicine.

Do the following ONLY AFTER YOUR PROJECT HAS BEEN APPROVED:

(Office to also share with ISMET teachers)

- Office will coordinate the distribution of all consent forms that need to go out to prospective human subjects. Do not distribute yourself or approach the grade teacher unless authorization is given by the office in writing. Teachers are advised not to get involved or get their students involved in any experimentation without this written authorization note from the office.
- All data collected is to remain anonymous. Do not list student names or ask the teachers for a class list. All references to students need to be done in generic terms (First Grader A, First Grader B, etc).
- All testing or interviewing of student human subjects needs to be done during all student's lunch and snack breaks, in the presence of a teacher.

Science Fair Resources:

It is also important to review the Science Fair Resources on your classroom websites:

- Parts of the Exhibit and Sample Abstracts
- Judging Guidelines and Criteria
- Sample Judges' Questions and Tips on Answering them

What to expect on School Science Fair Day:

Students need to set up their boards, data books, and exhibits at least one day prior to the fair. The judges will be given some time to look at your boards/exhibits and compile any questions they have about your project. So, your boards have to be well-thought out and properly organized.

After that, each student will be called in turn to get interviewed by the judges. In this interview, the student is expected to give a 2-4 minute interactive, interesting upbeat, dynamic, and concise presentation about their project. Due to time constraints, make sure to highlight all important facts about your project and research findings. Students should be prepared to answer questions while they are presenting and NOT lose their train of thought. The judges need to make sure that you really and thoroughly understand your topic and researched it well. You need to communicate an understanding of why you did things the way you did, and why you obtained the results you have, with a proper understanding of possible sources of error and the such. You also need to be able to answer questions about why your project is useful and how its findings can be applied in real life.

This process is almost identical to the process of judging at the upcoming INTEL Northwest Science Expo at PSU.

There is a limit of 18 middle school projects per school that are allowed to participate at this annual INTEL event.

Hence, only the top 18 projects from the School Science Fair judging will be able to move on to the INTEL Expo.

There is NO Limit for High School project participation at the Gresham-Barlow at-large Science Expo.