Are you interested in science, curious about how things work, or motivated toward working as a scientist or engineer someday?

Students in grades 7-12 have the opportunity to participate in two science fair competitions: Intel International Science and Engineering Fair (Intel ISEF) and Pennsylvania Junior Academy of Sciences (PJAS).

In order to participate in these fairs, you will:

- Ask a question.
- Do background research.
- Construct a hypothesis.
- Design and conduct experiments.
- Analyze the data and draw a conclusion.
- Communicate results.

You will have the opportunity to learn more about how science is actually done, learn communication and organization skills, meet students with similar interests, and compete against students from across the region.

If you qualify, there are opportunities to compete in higher level fairs, as well as earn prizes, scholarships, and other recognition.

The competitions differ in both the competition method and the presentation methods.

One Project, Two Opportunities (Intel ISEF and PJAS)

CR students in grades 7-12 have the opportunity to participate in two science fair competitions: Intel International Science and Engineering Fair (Intel ISEF) and Pennsylvania Junior Academy of Sciences (PJAS).

These two competitions are similar in that both require a project completed using the scientific method as a guideline. Both fairs require the completion (before beginning a project) of basically the same paperwork. And, since the majority of the effort is in the project itself, most students participate in both competitions.

The competitions differ in both the competition method and the presentation methods.
Comparison of Science Competitions

<table>
<thead>
<tr>
<th>Competition</th>
<th>Intel</th>
<th>PJAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Presentation method</td>
<td>• Information is presented using a tri-fold poster.</td>
<td>• Information is presented (using overheads or Powerpoint) as a 10-minute presentation given to a panel of judges.</td>
</tr>
<tr>
<td></td>
<td>• Students are then interviewed by a series of judges.</td>
<td></td>
</tr>
<tr>
<td>Judging</td>
<td>• Students are judged in a “head-to-head” competition with the students in their category.</td>
<td>• Students are judged against a rubric.</td>
</tr>
<tr>
<td>Team Projects</td>
<td>• Allowed</td>
<td>• Not allowed</td>
</tr>
</tbody>
</table>

Possible Categories

- Animal Sciences
- Behavioral & Social Sciences
- Biochemistry
- Cellular & Molecular Biology
- Chemistry
- Computer Science
- Earth and Planetary Science
- Engineering: Materials & Bioengineering
- Energy and Transportation
- Environmental Management
- Environmental Sciences
- Mathematical Sciences
- Medicine and Health Science
- Microbiology
- Physics and Astronomy
- Plant Sciences

What to do if you are interested

If you are interested in participating:

- Contact your science teacher who will help you get started
- Start thinking about areas of interest
- Visit the following CRSD teacher webpage (CRHS-North, Terese Grateful, Science Fair) for more information: [http://www.crsd.org/page/3761](http://www.crsd.org/page/3761)
- Visit the Intel ISEF website: [http://www.societyforscience.org/isef/](http://www.societyforscience.org/isef/)