HOW TO GUIDE
GETTING STARTED

The California Invention Convention provides students in grades K-12 an interactive and interdisciplinary opportunity to use the invention process to create and pitch an original product at a statewide convention. Students will build their critical-thinking and entrepreneurial skills and, for those who qualify, may compete in the National Invention Convention at The Henry Ford in Dearborn, MI.

The Henry Ford hopes that the California Invention Convention will bring together problem-solvers, inventors and entrepreneurs of all ages, backgrounds and disciplines.

Get Your Students Involved!
Educators of California schools, cooperatives and after-school programs serving student populations in grades K-12 are welcome to participate.

Contact the Lead Teacher Coordinator in your school district for more information. If your school or district does not currently participate in the California Invention Convention, contact us at www.ca.inventionconvention.org.

Student Eligibility
Participating students must:
- Be in grades K-12.
- Compete at their local invention convention organized by local ambassador.
- Be nominated by an educator or school to compete at the California Invention Convention.
- Compete as an individual or on a team (no more than two members). Teams may compete against individuals and vice versa.

Important Dates (specific dates on Web Site)
- Educator Info Session: Schedule a session on how to participate in the invention convention program in your school. This session can be held at your school or via Zoom.
- School Invention Fair: Organized by the educator ambassador before March.
- California Invention Convention: Usually held mid-April
- National Invention Convention: Usually held late May, early June, at The Henry Ford.

How to Compete
Students who compete and qualify at the California Invention Convention will be invited to compete in the National Invention Convention.

Students will need to develop an invention that tries to solve a problem in their life, the life of a loved one or their world. Students will develop, test and then pitch their project at the convention. There is a nominal fee to participate in the CA Invention Convention.
All projects must have:
- Invention Log (logbook or journal)
- Display Board
- Prototype
- Pitch Video (at state level)

Invention Log:
- Students use Invention Logs to document their journey. It should not be just a report completed after the fact.
- Invention Logs need to document all aspects of the invention process: identifying, understanding, ideating, designing, building, testing, refining.

Display Board:
- Students will need to create a visual display (trifold poster board) to compete.
- The display should communicate significant aspects of the invention process.

Prototype/Model:
- Students should create a model that demonstrates the key characteristics that make the invention valuable, usable and unique.
- Prototype can be a working or non-working model.

Pitch Video:
- The California and National Invention Conventions require students to record and submit a 4-minute unedited and continuous video of student(s) pitching their invention.

Contact Us
For more information on how to get involved, please contact www.cainventionconvention.org with your name, school, and questions.

We look forward to supporting you and your students as you explore the benefits of innovation and project-based learning.
PLANNING

Thank you for your interest in the California Invention Convention. Here are some tips for organizing your local invention convention program. Remember that the California invention Convention is always here to support you.

1. **Contact the California Invention Convention team** at [www.cainventionconvention.org](http://www.cainventionconvention.org) and help us get to know you. What subject do you teach? How many students are you hoping to have participate at your school? How can the California Invention Convention support you?

2. **Organize your team.** Decide which teachers and how many students will participate (a rough estimate will do at this early stage).

3. **Schedule an educator session.** This session on how to participate in the invention convention program in your school can be held via Zoom.

4. **Introduce invention learning to your students and integrate free invention curriculum into participating classrooms.** Typically, teachers spend roughly 6-10 weeks, one hour per week, on invention learning, beginning as early as October. We recommend doing this during normal school hours although it can also be done in after-school clubs. The California Invention Convention has compiled a list of resources that you may use, including National Invention Convention Curriculum. Access at [www.cainventionconvention.org](http://www.cainventionconvention.org).

5. **Set a budget.** Depending on how big you wish your convention to be, you may not need a budget at all. Remember that some of the best inventions have been built with little to no money. Some possible expenses are:
   - Invention curriculum professional development.
   - Cost of display boards and some materials for prototype building.
   - Awards and incidentals for local school convention (if needed).
   - Cost to transport students to the California Invention Convention at Maxim Integrated in San Jose CA.

**K-12 INVENTION CONVENTION CURRICULUM**

Presented by [StanleyBlack&Decker](http://www.stanleyblackandecker.com)

- Interdisciplinary and standards-based with dynamic activities to fit any subject.
- Flexible: Delivered in 6-12 weeks in class, after school, at home or independent study.
- Framework guides students through seven steps of the invention process.
- Invention log documents every step in making their invention, recording what they did, why they did it and how they did it.

CALIFORNIA INVENTION CONVENTION

California Invention Convention How-To Guide • 4
Quick List

- Contact California Invention Convention team.
- Organize your team.
- Schedule an educator session.
- Introduce invention learning to your students and integrate free invention curriculum.
- Set a budget.
- Support students while they create their inventions.
- Hold a kickoff event (optional).
- Schedule your local invention convention.
- Recruit volunteer judges.
- Hold your local invention convention.
- Determine which projects should apply to California Invention Convention.
- Attend California Invention Convention.
- Attend National Invention Convention.

6. Support students while they create their inventions. We recommend that you use the convention rules and judging rubrics set by the California Invention Convention and National Invention Convention when creating lesson plans and teaching the invention process. To qualify for California Invention Convention, each project must include the following:
   - Invention Log
   - Display board
   - Prototype
   - Video pitch

7. Hold a kickoff event (optional). Your local invention convention kickoff can include a formal event, a letter to parents and/or putting up posters around your school.

8. Schedule your local invention convention. To participate in the California Invention Convention, your local convention should be held before March 1, so that you can meet the California Invention Convention registration deadlines (check website for specific dates.

9. Recruit volunteer judges (ongoing). Judges can be anyone from parents and teachers to professionals and local officials. Judges must judge and score each student project according to a preset rubric. The judging results will help you determine which projects should apply to California Invention Convention. Judging form and rubric included in this packet.

10. Hold your local invention convention. Hold your local convention BEFORE March. Invite parents, teachers, administrators, local businesses and local organizations to attend and view student projects. Judges should score and comment on all projects.

11. Teachers determine which projects should apply to the California Invention Convention (percentage of projects will be determined by CAIC staff). Teachers will help all students competing in the California Invention Convention to register via the online application (link to be sent out in February). Students, families, teachers, judges and other guests will need to register.

12. Students attend California Invention Convention held on a Saturday mid-April. Teachers are encouraged to accompany their students.

13. National Invention Convention: Qualifying projects at California Invention Convention may be invited to apply to National Invention Convention which is held at The Henry Ford late May, early June.

Remember that:
   - Projects should be student-driven. Teachers and parents can support students with curriculum, lesson plans and prototype-building help, but projects should ultimately be the original work of students.
   - All new teachers MUST participate in a professional development session.
   - The California Invention Convention team is here to help! The staff will check in with all teacher leaders on a regular basis through the California Invention Convention program. You can ask questions at any time by emailing bpayne@cainventionconvention.org.
CALIFORNIA INVENTION CONVENTION

COMPTETITION RULES

These are the official rules of the California Invention Convention.

Selection
This is an invitation-only event. Inventors are carefully selected based upon criteria set by the California Invention Convention.

Eligibility
Inventors and entrepreneurs who have entered affiliate member competitions and won an invitation from your affiliate member are eligible to take part in this competition.

In order to be eligible to apply to the California Invention Convention, students must be in grades K-12 and be nominated by their local school, district or regional hub. All projects must have an Invention Log (logbook or journal), a poster board, a prototype (which may be nonworking) and a 4-minute unedited and continuous pitch video. Projects must also be of sufficient accomplishment and design to be at a state competition level, as determined solely by the judges. All accepted inventors will be deemed finalists upon acceptance to the California Invention Convention.

Project Restrictions
This is a large venue and proper expectations about behavior and projects should be considered. The following items are not allowed on your person or in your project:
- Electric stun guns, martial arts weapons or devices
- Guns, replica guns, ammunition, and fireworks
- Knives of any size
- Mace and pepper spray
- Razors and box cutters

Also, no balloons, glitter or confetti are allowed in any form.
Award Categories

Place Awards: First-, second- and third-place awards will be given for the following grade groupings:

- Grades K-2
- Grades 3-5
- Grades 6-8
- Grades 9-12

Industry Awards: One in each category:

- Agriculture (Food, Machinery, Tools), Pets, and Animal Care
- Consumer Goods and Fashion – If the invention doesn’t fit into any of the other categories and it is something people would buy, then it is a consumer good.
- Earth, Environment and Geosciences
- Education (Technology, Systems, Tools, Hardware) – anything that helps students or teachers in the classroom or students and their homework.
- Energy (Efficiency, Clean Technology, Generation)
- Health and Medical Technology
- Home Organization
- Home Technology, Smart Homes, Appliances
- Household Tools
- Public Safety – Your invention can be for the improving the safety of the public, rather than an individual
- Sports, Games, Entertainment, and Toys
- Technology/Wearables – technology with a purpose that can be worn
- Transportation – improving the means of transporting or travel from one place to another.

One award will be given for Most Marketable.

One award will be given for Best of Show.

Special awards may be added.

Teams will take part in the same judging processes as individuals.

Awards provided to students, including any plaques and monetary awards, are the property of the awarded students and not the school or organization they are representing.
### Grade Award Rubric: Points

<table>
<thead>
<tr>
<th>Category</th>
<th>Dimension</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Identifying and Understanding (30)</td>
<td>Problem Clearly Understood</td>
<td>10</td>
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<tr>
<td></td>
<td>Solution to Problem</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Research</td>
<td>10</td>
</tr>
<tr>
<td>Engineering Cycle (20)</td>
<td>Design &amp; Build</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Test &amp; Refine</td>
<td>10</td>
</tr>
<tr>
<td>Invention Effectiveness (30)</td>
<td>Practicality</td>
<td>10</td>
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<tr>
<td></td>
<td>Originality / Innovation</td>
<td>10</td>
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<td></td>
<td>Benefits</td>
<td>10</td>
</tr>
<tr>
<td>Communication (20)</td>
<td>The Live Pitch and Q&amp;A</td>
<td>10</td>
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<tr>
<td></td>
<td>Invention Log</td>
<td>10</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td>100*</td>
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* This is the rubric for the California Invention Convention state finals. Note that while the online video is required to participate in the state finals, it is currently not part of the total score. For those students continuing onto the National Invention Convention, the online video is required and is part of the total scoring. For details on the rubric used by the National Invention Convention, go to our website - [https://cainventionconvention.org/educators/](https://cainventionconvention.org/educators/) The National Invention Convention rubric – along with some simpler rubrics used by local schools – are available there for downloading.
<table>
<thead>
<tr>
<th>Identifying/Understanding (30)</th>
<th>Goal</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem Clearly Understood (10)</td>
<td>Is the problem clearly understood and defined?</td>
<td>An example of a well-defined problem: 17,000 kids ages 18 and under experience an infection from their IV when hospitalized; this costs insurance companies over $X dollars and kids are hospitalized for X days longer than anticipated.</td>
</tr>
<tr>
<td></td>
<td>The identifying stage is where inventors seek or find a problem that they want to solve. It is often important to ask an inventor how they uncovered this problem and who else might experience the same problem and to what end</td>
<td></td>
</tr>
</tbody>
</table>

| Solution to Problem (10) | Does the solution answer the problem as the problem is defined? | Student can explain how this solution answers the defined problem. Student may also describe other solutions tried that did not answer the problem. |

<table>
<thead>
<tr>
<th>Research (10)</th>
<th>Was the research underlying the invention complete and appropriate for this age group.</th>
<th>An inventor has researched multiple (4+) sources to understand the problem, including but not limited to:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Understanding a problem refers to the research that an inventor has done to understand what else exists to solve the problem as well as the full impact their problem may have on others</td>
<td>• Google</td>
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<td></td>
<td>• USPTO.com</td>
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<tr>
<td></td>
<td></td>
<td>• Subject matter experts (interviews)</td>
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<tr>
<td></td>
<td></td>
<td>• Visiting stores</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Looking at industry news</td>
</tr>
<tr>
<td>Engineering Cycle (20)</td>
<td>Goal</td>
<td>Example</td>
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<td>------------------------</td>
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</tr>
<tr>
<td>Design &amp; Build (10)</td>
<td>How did the student design the solution and why chose the materials used to build the design?</td>
<td>Invention Log includes a written diagram with labeled materials that takes the judge through the journey of the design process.</td>
</tr>
<tr>
<td></td>
<td>Designing an invention or a prototype requires critical-thinking skills; students should be able to articulate how they wanted the invention to work and why they chose the materials they did for executing their invention</td>
<td></td>
</tr>
<tr>
<td>Test &amp; Refine (10)</td>
<td>How did the student refine the design though testing? What did the student learn through testing?</td>
<td>The best inventors include a written diagram with labeled materials that takes the judge through the journey of the design process. Example: One young inventor, who was creating a battery from bananas, discovered in her first batch of banana mush that she did not get much electrical output. She modified the design numerous times, based on the detailed graphs and charts that she kept of her electrical output from various iterations. Eventually, her redesigned battery produced more electrical output.</td>
</tr>
<tr>
<td></td>
<td>The key to this step is iterations, improvements and perseverance. The best inventors know that the first build is often not the best and seek feedback through testing and refine their design accordingly.</td>
<td></td>
</tr>
<tr>
<td>Invention Effectiveness (30)</td>
<td>Goal</td>
<td>Example</td>
</tr>
<tr>
<td>Practicality (10)</td>
<td>How practical is the invention? Students should be focused on solving the problem with practical, creativity.</td>
<td>The student can clearly show how the invention would be used.</td>
</tr>
<tr>
<td>Originality (10)</td>
<td>Is the invention original? Or if not original, did the inventor come up with creative ways to improve on the original design?</td>
<td>The invention is beyond incremental and is something the judge has not considered or seen before</td>
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<tr>
<td></td>
<td>The innovations should help to create a new solution.</td>
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<tr>
<td>Solution Benefits (10)</td>
<td>Does the student clearly understand the benefits of the solution and how others might use it?</td>
<td>The student should be able to describe the benefits</td>
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</tbody>
</table>
### Communication (20)

<table>
<thead>
<tr>
<th>Goal</th>
<th>Example</th>
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</thead>
<tbody>
<tr>
<td>How clearly did the student state the problem and solution – through presentation to the judges, display board and showing the prototype?</td>
<td>The best pitches include the following:</td>
</tr>
<tr>
<td>1. Does the display have strong visual appeal?</td>
<td>- Introduction: inventor’s name, state, grade, etc.</td>
</tr>
<tr>
<td>2. Is the display eye-catching with color, pictures, graphs and variety?</td>
<td>- An overview of all invention process elements outlined in the invention scoring criteria (above).</td>
</tr>
<tr>
<td>3. Is grammar, spelling and punctuation correct and, if hand-printed, neatly done?</td>
<td>- Use and/or reference of all physical communication elements (including the Invention Log, display board and prototype).</td>
</tr>
<tr>
<td>4. Does the display communicate significant aspects of the Invention Process?</td>
<td>- Explanation of origination of the idea (helping to assess the originality).</td>
</tr>
<tr>
<td>5. Does the prototype clearly communicate the key characteristics that make the invention valuable, usable and unique?</td>
<td>- Other recommendations include:</td>
</tr>
<tr>
<td><strong>Note:</strong> Outside assistance and collaboration is acceptable as long as the student is driving the process and documents outside help. The student should only do what he/she can safely do. Credit should be given where help is given.</td>
<td>- Courteous and professional to peers in judging circle.</td>
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<tr>
<td></td>
<td>- Concise appropriate pace, clearly heard and understood.</td>
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<td></td>
<td>- Professional eye contact and posture.</td>
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<td></td>
<td>- Enthusiasm, passion, inflection, appropriate body language.</td>
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<td></td>
<td>- No reading from cue cards; explanation in own words.</td>
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<td></td>
<td>- No longer than 5 minutes.</td>
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</tbody>
</table>

### Invention Log (10)

| How well does the Invention Log document a journey? It is not a report done after the act, but an ongoing journal. Does it look complete? | Invention Log contains topic research, indicating that the young inventor is exceptionally knowledgeable about his/her problem and understands the issue thoroughly, including statistics about the significance of the problem. It also contains research about the existence of similar inventions and how their invention is different or better. Invention Log documents research from at least four sources, including interviews with experts in the field. Invention Log contains documentation to show progression of prototype iterations and improvements. |
| If the Invention Log is not complete, the score cannot be higher than 4. | |
The Online Video

The online pitch is a single recording that clearly and succinctly communicates the invention process and impact. It will be recorded and uploaded well in advance of the California Invention Convention event.

The best pitches include the following:

- **Introduction:** inventor’s name, state, grade, etc.
- **An overview of all invention process elements outlined in the invention scoring criteria (above).**
- **Use and/or reference of all physical communication elements (including the Invention Log, display board, and prototype).**
- **Explanation of origination of the idea (helping to assess the originality).**
- **Other recommendations include:**
  - Clear, concise, minimal stammering or superfluous words, correct grammar.
  - Enthusiasm, passion, inflection, appropriate body language.
  - No reading from cue cards; explanation in own words.
  - Not answering questions from someone off/on camera (Grade 4 and up. Younger inventors can be prompted with questions).
  - No longer than 4 minutes.
  - Equal participation of all team members.
RESOURCES


**California Invention Convention**
[www.cainventionconvention.org](http://www.cainventionconvention.org)

**National Invention Convention**
[inventionconvention.org](http://inventionconvention.org)

**National Invention Curriculum**
[nationalinventioncurriculum.org](http://nationalinventioncurriculum.org)

**Innovate Curriculum**
[thf.org/innovate](http://thf.org/innovate)

**STEMIE Coalition Website**
[stemie.org](http://stemie.org)

**Educational Resources**
[thf.org/education](http://thf.org/education)

**Model I Learning Framework**
[thf.org/education/teaching-innovation/modeli](http://thf.org/education/teaching-innovation/modeli)

**The Henry Ford's Innovation Nation**

**Season 1**
[.youtube.com/playlist?list=PL15Gi](https://www.youtube.com/playlist?list=PL15Gi)
[husSLQlqUpHW6bK9Csr0CFjeGlp](https://www.youtube.com/playlist?list=PL15Gi)

**Season 2**
[.youtube.com/playlist?list=PL15GihUisSLRlm4i_dJkg2kn-Yz9iNK](https://www.youtube.com/playlist?list=PL15GihUisSLRlm4i_dJkg2kn-Yz9iNK)

**Season 3**
[.youtube.com/playlist?list=PL15GihUisSLQV9qKLapErcmJMsoQgQuT](https://www.youtube.com/playlist?list=PL15GihUisSLQV9qKLapErcmJMsoQgQuT)

**Season 4**
[.youtube.com/playlist?list=PL15Gi](https://www.youtube.com/playlist?list=PL15Gi)
[husSLREIhB5ZVQbC0Dkb3IEmRUp](https://www.youtube.com/playlist?list=PL15Gi)

**Hollow Flashlight Girl**

**Season 1: Episode 5**
Learn about the steps, risks, and failures this young innovator experienced in creating a battery-free flashlight.
[.youtube.com/watch?v=RCWVID](https://www.youtube.com/watch?v=RCWVID)
[wnplA&feature=youtu.be&list=PL15GihUisSLTqur5bibKgLhNuPl-mqs](https://www.youtube.com/watch?v=RCWVID)
DEAR PARENTS AND GUARDIANS,

Your child’s teacher has elected to participate in the California Invention Convention program. The California Invention Convention program provides students in grades K-12 an interactive and interdisciplinary opportunity to use the invention process to create and pitch an original product at a statewide convention. Students will build their critical-thinking and entrepreneurial skills. Qualifying projects may even compete in the National Invention Convention.

It is our hope that the California Invention Convention will bring together problem-solvers, inventors and entrepreneurs of all ages, backgrounds and disciplines.

This letter outlines the important things to know about the process and convention as you support your child this year.

If you have any questions, please contact your child’s teacher. Thank you for your support!

California Invention Convention

**Important Events**

- **Local Invention Convention:** Your child’s teacher will incorporate invention learning into the classroom, culminating in a local invention convention at your school or local hub.

- **California Invention Convention:** Qualifying projects from California schools will be invited to present their projects to their peers and a panel of judges at California Invention Convention usually mid-April.

- **National Invention Convention:** Students who do well at California Invention Convention may be invited to participate at the National Invention Convention, held late May, early June at The Henry Ford.

**Student Eligibility**

Participating students must:

- Be in grades K-12.
- Compete at their local invention convention organized by local ambassador.
- Be nominated by educator or school to compete at California Invention Convention.
- Compete as an individual or on a team (no more than two members). Teams may compete against individuals and vice versa.

**How to Compete**

Students will develop an invention that tries to solve a problem in their life, the life of a loved one or their world. Students will develop, test and then pitch their project at the convention.

**All projects must have:**

**Invention Log**

- Students use the Invention Log/journal to document their journey. It should not be just a report done after the fact.

- Invention Logs need to document all aspects of the invention process: identifying, understanding, ideating, designing, building, testing and refining.

**Display Board**

- Students will need to create a visual display (trifold poster board) to compete.

- The display should communicate significant aspects of the invention process.

**Prototype/Model**

- Students should create a model that demonstrates the key characteristics that make the invention valuable, usable and unique.

- Prototype does not have to be fully functioning.

**Pitch Video**

- California and National Invention Convention require students to record and submit a 4-minute unedited and continuous video of student(s) pitching their invention.

**Your role**

As a parent, your role is to support your child as he or she learns the invention process and develops his or her own invention. It is important to note that outside assistance and collaboration is acceptable as long as the student is driving the process and documents outside help.
Evaluation Criteria

Start at the average/middle score (5 out of 10), then add and deduct points.

<table>
<thead>
<tr>
<th>30% - 01 – Identifying and understanding</th>
<th>01 Score:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Is the problem clearly understood and defined? Scoring range 1-10</td>
<td></td>
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<tr>
<td>Notes &amp; Comments:</td>
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<tr>
<td>b. Does the solution answer the problem? Scoring range 1-10</td>
<td></td>
</tr>
<tr>
<td>Notes &amp; Comments:</td>
<td></td>
</tr>
<tr>
<td>c. Was the research underlying the invention complete and appropriate for this age group? Scoring range 1-10</td>
<td></td>
</tr>
<tr>
<td>Notes &amp; Comments:</td>
<td></td>
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</tbody>
</table>

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<thead>
<tr>
<th>20% - 02 - Engineering Cycle</th>
<th>02 Score:</th>
</tr>
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<tbody>
<tr>
<td>a. Designing and Building: How did the student design the solution and why did the student choose the materials used to build the design? Scoring range 1-10</td>
<td></td>
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<tr>
<td>Notes &amp; Comments:</td>
<td></td>
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<tr>
<td>b. Testing &amp; Refining: How did the student refine the design through testing? What did the student learn through testing? Scoring range 1-10</td>
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<tr>
<td>Notes &amp; Comments:</td>
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### 30% - 03 - Invention Effectiveness

<table>
<thead>
<tr>
<th></th>
<th>03 Score:</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td>How practical is the invention? Scoring range 1-10</td>
</tr>
<tr>
<td></td>
<td>Notes &amp; Comments:</td>
</tr>
<tr>
<td>b.</td>
<td>Is the invention original? Or if not original, did the inventor come up with creative ways to improve / change it to make it unique – i.e.. How did the student innovate? Scoring range 1-10</td>
</tr>
<tr>
<td></td>
<td>Notes &amp; Comments:</td>
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<tr>
<td>c.</td>
<td>Does the student clearly understand the benefits of the solution and how others might use it? Scoring range 1-10</td>
</tr>
<tr>
<td></td>
<td>Notes &amp; Comments:</td>
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</table>

### 20% - 04 – Communication

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<th>04 Score:</th>
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<tbody>
<tr>
<td>a.</td>
<td>How clearly did the student state the problem and solution – through presentation to the judges, Invention Log, display board and showing the invention? Scoring range 1-10</td>
</tr>
<tr>
<td></td>
<td>Notes &amp; Comments:</td>
</tr>
<tr>
<td>b.</td>
<td>How well does the Invention Log document a journey? It is not a report done after the fact, but an ongoing journal. Does it look complete? Scoring range 1-10</td>
</tr>
<tr>
<td></td>
<td>Notes &amp; Comments:</td>
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</tbody>
</table>

**FINAL SCORE ____________________**

**Summary Comments:**