



Dear Educator,

Enclosed you will find a packet of materials for Invent Idaho 2011.  
They include:

- Invent Idaho Rules, Judging Criteria and Categories.
- A summary information sheet including preliminary details of the State Final Invent Idaho at DCI in March.
- A suggestion sheet for guiding work on student journals.
- Intent to Register form for the regional conventions for both schools/districts and solo registrants not entering as a school or district. These are due by December 1, 2010.

The *Intent to Register* form, along with the registration fee must be mailed to the Registration Center of the appropriate region. This form and fee are due **December 1, 2010** and will ensure a space for you in the Regional Invent Idaho. If your school/district does not wish to register, but you have students who would still like to enter the competition, they must choose "Option B" on the *Intent to Register* form and submit their registration fee by December 1, 2010. The link for online registration of the inventions themselves will be emailed to you after all Intent to Register forms have been received.

I invite you and your students to participate in this program to recognize the outstanding creativity of Idaho youngsters. Inventing in the classroom allows you to present a truly integrated program for your students: the design technology, prototyping and testing elements meet science standards, journaling links to language arts standards, and math and humanities standards are addressed by technical drawing and model building. In this time of increasing attention to testing, standards and curriculum mandates, it's refreshing to have a program that covers so many bases while encouraging higher-order thinking, ingenuity and imagination.

Sincerely,  
T. Woody Sobey  
DCI Education Director  
[w.sobey@dcidaho.org](mailto:w.sobey@dcidaho.org)

# INVENT IDAHO 2011

## Invention Categories

**All inventions may be conceived, designed and entered by *individuals or pairs* in any of the following categories.**

### **WORKING MODELS**

This category includes projects where students have produced a scaled model or sample of the invention that **actually functions**, in addition to accomplishing the stated goal.

### **NON-WORKING MODELS**

This category is for inventions that would be too large, expensive or technical to build. Entries in this category must be more than just a drawing; each entry must include a "blueprint" as well as a **three-dimensional model or sample**.

### **ADAPTATIONS**

This is an invention which takes an idea already in existence and **improves upon** it. Again, a sample or model of the adaptation is required.

### **GAMES**

This category may include **original computer games** designed and programmed by the student, **board games** of the student's own creation, **or a sport/athletic activity** originated by the student. Examples of computer disks and/or the board games, as well as thoroughly explained rules, are necessary. If computer games are designed, the inventor will need to provide the computer for judging.

### **JULES VERNE!!**

This category encompasses all those projects that would fit into any other category but are too wild and crazy or fanciful and far-out to be judged against more practical inventions. This is the **fantasy category** and will be judged heavily on imagination. Rube Goldberg entries and future space ideas are examples of projects for this category. All projects must be accompanied by at least a neat, fully-detailed 8.5" X 11" sheet drawing and 3-D model to represent the invention/idea.

*"Imagination is more important than knowledge"*

*~ Albert Einstein*



## Invention Rules

- The Invention must be student initiated; help from parents or friends is acceptable but *must* be fully documented in an Inventor's Journal.
- The overall theme of the invention must enhance the quality of life and be humane.
- Each invention must include a model *or* the actual invention.
- **A free-standing display (not a wall poster) is required. Display must include name of invention, blueprint(s), goal or problem it solves, and how it works/solves problem.**
- **No student names/faces/schools anywhere on project, worksheet, journal or display board.**
- Cost of new materials, not to exceed \$20.00 including free standing display, **and all sales receipts must be attached to the journal or display.**
- An inventor's journal **must** accompany the invention. This allows students to document the inventing process and show judges they have met the criteria below.
- **Inventions in any category may be entered by individuals or pairs. Mixed grade pairs must register in the grade division of the oldest member.**
- Inventions from prior years will not be accepted.
- All inventions will be judged by the same criteria.

## Judging Criteria

<b><u>Originality</u></b>	35 points total
<i>Project represents original, creative thought and is a unique solution.</i>	
<b><u>Shows student initiative</u></b>	25 points total
<i>Model, presentation and journal demonstrate how student originated idea and was main contributor to the project. Journal documents student initiative and the inventing process, from brainstorming, through prototyping, to final project.</i>	
<b><u>Accomplishes a stated goal, problem or objective</u></b>	10 points total
<i>Project accomplishes goal, problem or objective stated on inventor's worksheet.</i>	
<b><u>Visual presentation</u></b>	15 points total
<i>Project and/or display is eye-catching, attractive and neatly done. (7pt)</i>	
<i>Display includes name of invention, goal, how it works, blueprint. (8pt)</i>	
<b><u>Research and documentation</u></b>	15 points total
<i>Journal and/or display documents research related to topic and existence of similar inventions. (12 pt)</i>	
<i>Student provides receipts and notes showing evidence of staying under \$20 in new materials. (3pt)</i>	
<b><u>100 points total</u></b>	

# INVENT IDAHO 2011

## Summary Information

### Regional Competitions

Schools and districts register for one of the three Regional Invent Idaho events. Inventions are selected from the Regional for the State Final. Home-school groups may register as schools (virtual schools may register as one school in each of the three regions.) Please review district and school entry forms for details.

**Regional Registration Deadline: December 1, 2010.**

<b>North Idaho Regional:</b>	<b>Jan 28 - 30</b>	<b>Silver Lake Mall, Coeur d'Alene</b>
<b>East Idaho Regional:</b>	<b>Feb 25 - 26</b>	<b>Eastern Idaho Tech, Idaho Falls</b>
<b>SW Idaho Regional:</b>	<b>Feb 18 - 19</b>	<b>BSU College of Engineering, Boise</b>

**Inventions are accepted for the Regional in one of the following categories:**

Working Models • Non-Working Models • Games  
Adaptations • Jules Verne!!

**Grade level divisions are as follows:**

1<sup>st</sup> & 2<sup>nd</sup>      3<sup>rd</sup> & 4<sup>th</sup>      5<sup>th</sup> & 6<sup>th</sup>      7<sup>th</sup> & 8<sup>th</sup>

### Regional Coordinators:

#### **Northern Idaho**

Beth Brubaker  
Lakeland Junior High  
P.O. Box 98  
Rathdrum, ID 83858  
(208) 687-0661(w)  
(208) 687-1510 (fax)  
[bbrubaker@lakeland272.org](mailto:bbrubaker@lakeland272.org)

#### **Southwestern Idaho**

Tori C. Powers  
Discovery Center of Idaho  
131 W Myrtle St  
Boise, ID 83702  
(208) 343-9895 (w)  
(208) 343-0105 (fax)  
[dcifilter@gmail.com](mailto:dcifilter@gmail.com)

#### **Eastern Idaho**

Jennifer Cook  
Blackfoot Sixth Grade  
50 S. Shilling Ave.  
Blackfoot, ID 83221  
(208) 785-8838 (w)  
(208) 785-8840 (fax)  
[cookjen@d55.k12.id.us](mailto:cookjen@d55.k12.id.us)

State Entry Packets will be distributed by regional coordinators to students who qualify at the regional competition. **Inventions qualify for State by placing in one of the following ways:**

Best of Show - Primary level (grades 1 - 4)  
Best of Show - Intermediate level (grades 5 - 8)  
Best of Category  
1<sup>st</sup> and 2<sup>nd</sup> in Category/Grade Level Divisions

**Inventions must be pre-registered for the State competition by February 26<sup>th</sup>. Walk-in entries will not be allowed or displayed.** Teachers who collect these state entry forms for students who are not in attendance must be sure to deliver them to students/parents immediately.

### State Final

The Invent Idaho State Final will be held at the Discovery Center of Idaho. Invention set-up will be on Friday afternoon, March 11<sup>th</sup> with the Awards Ceremony at 3 pm Saturday, March 12<sup>th</sup>. Inventions **must** be present until end of ceremony to receive award. **State Registration Deadline: February 26<sup>th</sup>, 2011.**

# Inventor's Journal

**The following ideas can be used as the basis for your journal, which documents the inventing process.**

Please include these ideas in your inventor's journal:

- All entries should be dated and initialed by inventor. Initials allow you to sign your work but still remain anonymous to judges.
- Document how your idea unfolded through detailed writing and many rough blueprints that show how your idea took shape.
  - Brainstorm/list different ideas for inventions.
  - Narrow those ideas down by circling, starring or underlining your favorite three ideas.
  - Draw rough blueprints of possible inventions for each of those ideas. Title each blueprint. Label each blueprint part.
  - Research each invention to find out if it is original and new. If you go online, print web pages showing what inventions you looked at, document what sources you used, who you talked to, etc.
  - Choose your favorite original, new invention from the three you drew.
  - If you learn something new to make your invention, document who taught you, what they taught you and how you participated in the learning.
  - If someone makes part of the invention for you because it is unsafe for you to make it all by yourself, document who did this, what they did and how you helped, if at all.
  - Research and document how to turn this blueprint into a model. Stay within the cost range. Look for ways to use salvaged items for your new invention.
  - Write in your inventor's journal any idea in the inventing process that didn't work out but helped you go on to create your invention.
- Brainstorm/list many ideas for a name, choose your favorite.
- Brainstorm/list ideas for logos. Include drawings of your favorites and choose the best one.

# Regional Competition Intent to Register



**Who will be the primary contact for the regional competition?**

Contact Name: \_\_\_\_\_ Contact Title: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Work Phone: \_\_\_\_\_ Home Phone/Mobile: \_\_\_\_\_

Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

## School/District Information

School/District Name: \_\_\_\_\_ District #: \_\_\_\_\_  
(From Idaho Educational Directory)

School/District Address (If different from above): \_\_\_\_\_

School/District Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

*Please be sure the addresses above are complete, including both contact and school, if different. They will be used both for this year's convention, and to provide you with information about Invent Idaho in future years.*

**If more than three schools in a district are participating, register as a district.**  
*Home-school groups may register as schools.*

- Option A:** Please register our school/district for participation in the 2010 Regional Competition of Invent Idaho. Our check for \$20 (up to 15 inventions for school entry) or \$50 (up to 45 inventions for district entry) is enclosed.
- Option B:** Please register me as a solo registrant for participation in the 2010 Regional Competition of Invent Idaho. My check for \$10 is enclosed.

**Make checks payable to "Invent Idaho."**

**Mail this completed entry form and fee to the appropriate contact person below:**

### Northern Idaho

Beth Brubaker  
Lakeland Junior High  
P.O. Box 98  
Rathdrum, ID 83858  
(208) 687-0661(w)  
(208) 687-1510 (fax)  
[bbrubaker@lakeland272.org](mailto:bbrubaker@lakeland272.org)

### Southwestern Idaho

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### Eastern Idaho

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(208) 785-8840 (fax)  
[cookjen@d55.k12.id.us](mailto:cookjen@d55.k12.id.us)

## Deadline: December 1, 2010