

Hooksett Memorial School



Dear Parents,

We are excited to bring the Invention Convention to our school again this year. Your child learned some details of this enrichment opportunity on Wednesday. This is a voluntary at-home creation in which students apply what they have learned about inventing using their own ingenuity. Inventors combine many skills in the areas of science, social studies, language, writing, art and math. Inventing promotes analytical thinking, creative thinking, problem-solving skills, as well as presentation and communication skills. We hope to have many students participate in the Convention this year.

The 2019 Memorial School Invention Convention will be held on Thursday, February 7th (snow date Friday, February 8th).

This year's participants may choose one of two paths:

<u>Invention</u>	<u>Rube Goldberg Design</u>
<p>Participating students will submit designs which aim to solve a real problem - in a way that has not been done before. They set out to build a working model of it. Perhaps your pet needs a more effective way to let you know it needs to get outside. Do you wonder if you can prevent the bar of soap from breaking in half before it runs out? These are all problems which could be solved by students with inventive minds. Categories to consider include (but are not limited to):</p> <ul style="list-style-type: none"> • 2019 Challenge: FUNvention (the next hit toy) • Electrical • Caring for your pet • Service • Environmental/Sustainability • Out-of-the-box thinking • Innovation • Most marketable 	<p>Participating students will submit chain reaction designs which accomplish a simple task in a complicated way. Picture a marble rolled down a curving path triggers a catapult to throw a ball at a target which releases a string and it tips a box to fill the dog bowl with dog food. This would be part of a Rube design. Students practiced these during our Rube Goldberg Tinker Day this fall. These should use common items (from around the house whenever possible) AND incorporate at least 4 simple machines (lever, pulley, inclined plane, screw, wheel & axle, wedge). These should have 6 actions and be built in a "mobile" way so that it can be carried to and set up at the Invention Convention.</p>

For more information regarding details about Invention Convention, visit: <http://www.aas-world.org/YIP/> or go to the HMS Media Center website and view an inventors web quest: <https://tinyurl.com/inventorswebques>.

Permission: Intent to Invent Form

If your child would like to participate in this program, please complete the accompanying “**Intent to Invent**” form and return it to the ALPs program teachers by **January 18th**. We’ll send more details, FAQs, and Parent Tips.

Expectations: Once a student passes in the “Intent to Invent” form, she/he will be expected to:

- Keep an Inventor’s Journal (one will be provided, but students can create their own)
- Design and build an Invention or Rube Goldberg Design
- Create a display board (tri-fold boards up to 36” tall x 48” wide)
- Prepare a brief presentation (2-3 minute speech/demo) for judges and visitors



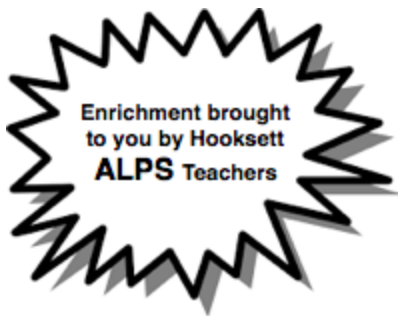
Logistics: The Invention Convention for grades 3-5 will be held at Hooksett Memorial School on Thursday, February 7th, 2019 (snow date is Feb. 8). Students will first present their inventions and Rube designs in a designated space (gym or common area) to judges, followed by classroom visits throughout the day. The celebration continues that evening, as inventors are asked to return and share as their work to parents and community members. Some students will be chosen to represent HMS at the state/regional competition on March 31, 2019.

2019 HMS Invention Convention Timeline

- Jan 18: *Intent to Invent form due to the ALPs teachers (earlier is better)*
- Feb 6: *Inventions may be dropped off between 3:30 - 5:30 PM (preferred drop-off time)*
- Feb 7: Morning drop-off of inventions 7:30 - 8:30 AM. All inventions must be at HMS by 8:30 AM.
- Feb 7: School-wide celebration of Invention Convention all day and then in the evening from 6-7pm

State/Regional Invention Convention will be held on March 31, 2019, at Southern NH University.

WE NEED VOLUNTEERS! Please watch for a signup soon to come help with the Invention Convention day. Volunteers check in students off and on throughout the day and help keep things running smoothly.



Sincerely,

Donna Tremblay and Tracey Ruest
Hooksett ALPs Teachers
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Intent to Invent Form

For Hooksett Memorial School Students

To enter the 2019 HMS Invention Convention

This form is due by Friday, January 18, 2019



Grade: _____ Teacher: _____

Inventors: can work alone or with one partner

Rube Goldberg Designers: can work alone or in a group with up to 4 members

Each participant must submit a form with their partner's name included.

★ Student Inventor/Designer: _____

★ Name(s) of Partner(s) (if working in a team): _____

★ I/We intend to create a (circle one) *Rube Goldberg Design* or *Invention*

★ Brief description (what will it do or solve, etc):

★ _____ We have researched to make sure this idea has not been invented.

★ _____ Parent/Guardian permission for photos/videos (school or local newspaper, school/PTA website, slideshows used at school, shared at a school board meeting). Please note specifics if you do not agree to all.

Parent Signature: _____

Parent Email: _____

Once you turn in this form, we will provide you with ...

- an Inventor's Journal (one is shared when you work on a team)
- important dates to remember (pacing, check-ins, drop-off, etc.)
- any additional updates, reminders, information (via email provided on form)

We will ask for a title for the Invention/Rube once you've had time to work on it, but no later than one week before the Invention Convention.

Please share updates, questions, concerns ...

... for Grade 3 Inventors with Mrs. Ruest truest@sau15.net

... for Grade 4 Inventors with Mrs. Beaudoin rbeaudoin@sau15.net

... for Grade 5 Inventors with Mrs. Tremblay dtremblay@sau15.net

