



Join Us For

Independent Students' Invention Fair

Wednesday, March 4, 2020

4 pm – 6:30 pm

Making Matters NH

88 Village Street, Concord NH

Snow date: March 6, 2020

On **Wednesday, March 4, 2020**, we will host the YIP Independent Student Invention Fair for students who are not participating in a local Young Inventors' Program site. While this fair is a competition of sorts, more important, it is an opportunity for young inventors to showcase their invention project and celebrate their efforts. We hope that you will join us for this event and we welcome all family members and friends.

The following is the schedule for the Invention Fair:

3:30pm- Inventors may begin to arrive and set up

4:00pm-4:15pm- Inventors set up

4:15pm-5:15pm- Judging Session and inventor presentations

4:45pm-5:30pm- Family and Friend Viewing

5:30pm-6:30pm- Awards presentation and Inventor Celebration (light refreshments)

All students will be recognized for their achievements and awards will be presented. Selected students from our Independent Student Invention Fair will be invited to present their inventions at the Northern New England Regional Invention Convention with an opportunity to move on to the Invention Convention U.S. Nationals.

Please let us know your intent to participate by February 21st by contacting YIP Director, Tina White, twhite@aaas-world.org, 603-228-4530 x213.

We look forward to celebrating our inventions with you!

Young Inventors' Program®

Who is eligible?

- Independent students who do not have access to a local Young Inventors' Program Invention Fair in their school or community, home school students, and students who incorporated invention projects into their individual learning plan.
- Students who live more than 45 minutes from Concord, NH may participate virtually. Students local to Concord may be considered for virtual participation on a case by case basis. Please contact the YIP director.

YIP Challenge 2020

The Green School Challenge

Each year, the Young Inventors' Program offers an additional challenge. Inventors who accept the challenge must incorporate a special element into their invention design. The Challenge Invention Category includes all inventions which incorporate the year's theme. The Challenge may provide more direction for students who are overwhelmed by the thought of brainstorming a problem to solve, or for those students seeking to push themselves to think outside of the box.

YIP CHALLENGE 2020

THE GREEN SCHOOL CHALLENGE

The YIP Challenge theme for 2020, is the **Green School Challenge**. Now is your opportunity to make your school more efficient and environmentally friendly. What can you do to reduce food waste in the cafeteria, cook or serve meals differently, save energy, make an easier or fun way to recycle or compost, or reduce water usage? We know you have some bright ideas. So let's begin to make your school a "greener" place.

Participation Requirements:

All students presenting inventions in the Independent Student Invention Fair must have the following materials with their project:

- Inventor's Journal
- Tri-fold poster display
- A 2-3 minute oral presentation in which they present their project
- Not required, but recommended: a model or prototype (working or non-working) of their invention

Virtual Participation Requirements:

If approved by the YIP Director to participate in the Independent Student Invention Fair virtually, inventors must submit the following required materials:

- Inventor's Journal: scan and upload to Google Drive for sharing
- A 3-4 minute video (continuous and unedited), in which they present their project: upload and share link. If you need help, contact Sara and we will upload to our private YouTube channel

More details will be announced in early February. All materials for virtual participation are due by 5:00pm (EST): Wednesday, February 26, 2020

Virtual Judging: February 27-March 2, 2020

Rules of Competition: General and Challenge Invention

Teams:

- Only two students are allowed per Invention Team. Students do not have to be from the same grade.
- All team members must take part in the team presentation.
- All team members should keep their own YIP Inventor's Journal or invention logbook. Note: logbooks are required materials for the regional and national competitions.
- Each student can enter only one project (Invention or Chain Reaction Machine) for the School/Local Invention Fair, the Northern New England Regional Invention Convention, and the Invention Convention U.S. Nationals. No student can enter both an individual and a team project.
- Teams will compete against individuals and vice versa.
- The judging process for individuals and teams is exactly the same at all levels.

Project Requirements

All projects must have the following components:

- YIP Inventor's Journal or invention logbook
The journal documents the student's journey and all aspects of the invention process. Journals should be used throughout the development of the project and should not be a report completed after the fact.
- 3-panel Display Board
Displays are a visual aid to communicate significant aspects of the invention.
A tri-fold display board may be a maximum of 48" wide and 36" tall (the board should be 24" with both 12" sides folded in.) The board must fit into a footprint of no more than 30" wide (with sides folded in) on the tabletop. Prototypes and models should fit within this tabletop space as well or on the floor in front of the table and should not encroach upon neighboring display spaces. No oversize displays will be allowed.

Display boards **must** have the following information in one consolidated place on the poster:

- Student(s) Name(s)
- Name of Invention
- Student(s) Grade(s)
- Student(s) School
- School City, State
- Statement of the problem
- Explanation of the invention as a solution to the problem
- Details of model construction
- Diagrams of design

**Note: Models or prototypes (which may be working or non-working) are not required but are recommended. These models demonstrate the key characteristics that make the invention valuable, original, and useful. This model does not have to be fully functional.*

Project Restrictions

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
- Live animals
- No balloons, glitter, or confetti are allowed in any form

If a project requires batteries, these must be provided by the inventor. The Regional Invention Convention will have access to electrical outlets if needed.

Rules of Competition: Chain Reaction Machines

Teams

- Teams of up to four students will be allowed per Chain Reaction Machine invention. Students do not have to be from the same grade.
- All team members must take part in the team presentation.
- All team members should keep their own YIP Inventor's Journal or invention logbook.
- Each student can enter only one project (Invention or Chain Reaction Machine) for the School/Local Invention Fair and the Northern New England Regional Invention Convention. No student can enter both an individual and a team project.
- Teams will compete against individuals and vice versa.
- The judging process for individuals and teams is exactly the same at all levels.

Project Requirements

All projects must have the following components:

- YIP Inventor's Journal or invention logbook
The journal documents the student's journey and all aspects of the invention process. Journals should be used throughout the development of the project and should not be a report completed after the fact.
- The task performed in the Chain Reaction Machine must take at least 6 steps to complete.
- Chain Reaction Machines must incorporate a minimum of 4 of the following simple machines at least once:
 - wheel and axle
 - pulley
 - inclined plane
 - screw
 - wedge
 - lever
- Steps and machine components labeled appropriately on display or contraption.

Chain Reaction Project Restrictions

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
- Live animals
- No balloons, glitter, or confetti are allowed in any form

If a project requires batteries, these must be provided by the inventor. The Regional Invention Convention will have access to electrical outlets if needed.