

Sandown North Inventors Program!

Dear Parents,

Sandown North is participating in the NH Young Inventors Program. The processes, skills and experiences of inventing are an important aspect of the Timberlane Regional School District's science curriculum.

Through the process of inventing students learn to practice analytical thinking as they look at the world. Students participate in real life problem solving as they think about daily challenges. Proposing solutions to problems is an exercise in critical thinking. Building models to represent those solutions teaches important technical skills. Presenting ideas promotes the growth of effective communication.

The invention program is segmented into the five steps as outlined in the attached progress sheets: Brainstorm Problem to Solve, Choose One Problem, Brainstorm Solutions, Choose One Solution, and Create Your Invention. These forms can also be viewed at the **Invention Program** link at www.sandownnorth.com

Students who choose to participate in this program will have the opportunity to showcase their journals and inventions at The Sandown North Invention Convention. One invention from each grade level will be invited to represent our school at the **NH State Young Inventors Program** on Saturday, March 26, 2011. The Young Inventors Program requires all work and ideas to be student generated.

Models and journals must be submitted to Mr. Melle on or before February 16, 2011. I look forward to seeing our students' creativity in action. More information about the NH Young Inventors Program can be found at www.aas-world.org.

Sincerely,

Justin Melle,
Enrichment Teacher
Sandown North
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New Hampshire Young Inventors Program
Part 1: Brainstorm Problems to Solve.

Name: _____, Grade: _____, Teacher: _____

Write a list of problems you would like to solve. Ask friends and family for input.

List of Problems

Example: I always spill when I pour milk on my cereal.

1. _____

2. _____

3. _____

4. _____

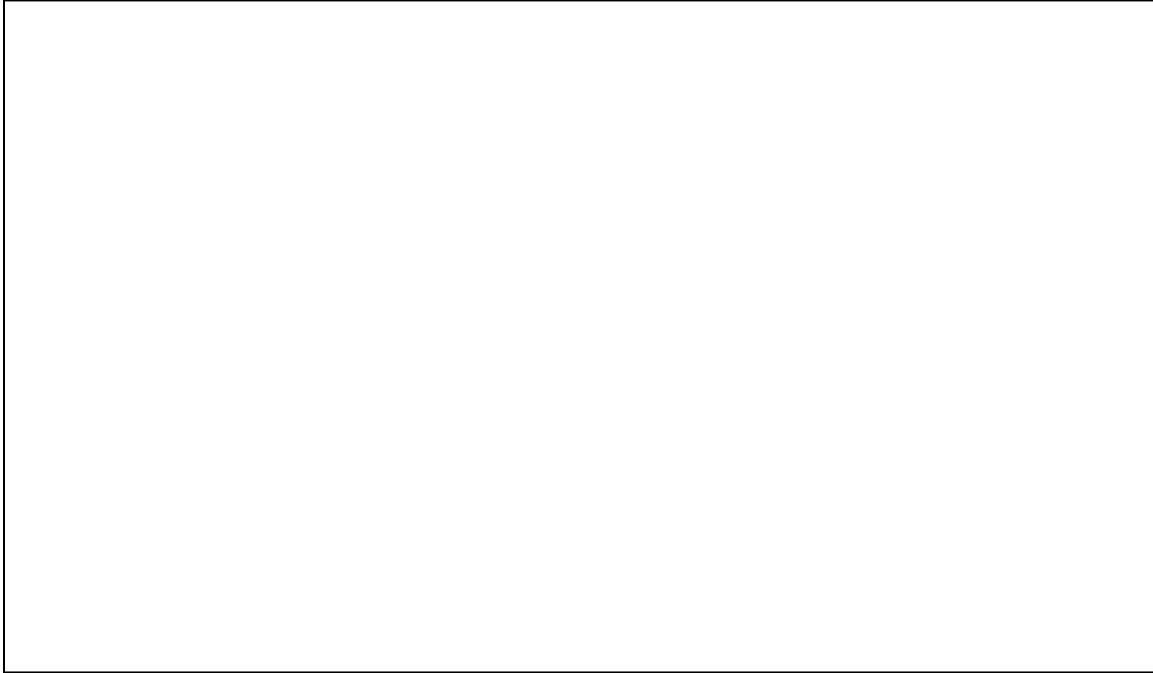
5. _____

6. _____

New Hampshire Young Inventors Program
Part 2: Choose One Problem.

Name: _____, Grade: _____, Teacher: _____

Describe the one problem from your “Brainstorm Problems to Solve” form.
Create an illustration or written description of the problem.

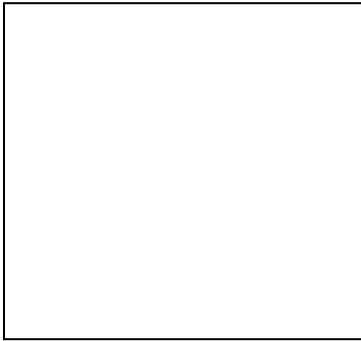


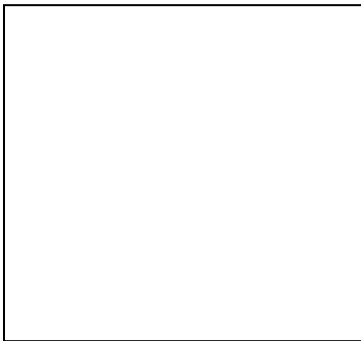
Problem:

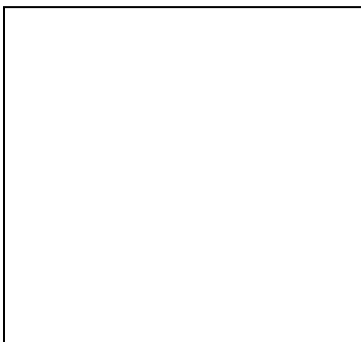
New Hampshire Young Inventors Program
Part 3: Brainstorm Solutions

Name: _____, Grade: _____, Teacher: _____

Create several diagrams or write descriptions of original ways
to solve your chosen problem.







New Hampshire Young Inventors Program
Part 4: Choose One Solution

Name: _____, Grade: _____, Teacher: _____

Look at your list of solutions and choose the best one. Create a detailed diagram of your invention!



New Hampshire Young Inventors Program
Part 5: Create Your Invention!

Name: _____, Grade: _____, Teacher: _____

Build a model of your invention at home.

You should ask your parents for help with any tasks that might be dangerous but most of the work should be your own.

Create a display that describes how your invention works.

Invention considerations list

Is your invention:

__original?

__useful?

__fun?

__Marketable?

__creative?

__Innovative?

Questions:

1. How did you get your idea for your invention?
2. What is the purpose of your invention?
3. How does your invention work?
4. What was most difficult about building your model?
5. In what ways did you improve on your original idea?

Invention forms can also be viewed at the **Invention Program** link at www.sandownnorth.com
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