iNVENTIoN CoNVENTIoN
CONNECTICUT & MASSACHUSETTS

Invention Log

Grades 3-5

This Logbook belongs to: _____

Invention Convention Logbook

This is YOUR Invention Story. You Get to Tell It!

- An invention is something new that helps solve a problem or do something better or easier.
- You will use this invention log to tell the story of your invention from start to finish.
- Every time you work on your invention, write or draw in this logbook. Follow the steps of inventing. Do not skip ahead!
- When you finish a page, put your name and the date on the bottom.
- If you need more space, add more pages to your logbook.
- Keep your logbook safe. It is an important part of your project for the Invention Convention.

Invention Vocab:

Solution - the answer to your problem, your invention!

Research - finding and gathering information.

Prototype - a model of your invention.

Iteration - repeating steps to improve your ideas.

Print your **Name** and the **Date** when you finish this page. Copyright All Rights Reserved

This page can be completed later, after you've decided on your invention.

The Name of My Invention:

_____

The Problem That It Solves:

_____

_____

_____

_____

Statement of Originality

I promise that the ideas in this Invention Log are my own.

My Name:

_____

Date: _____

 Copyright All Rights Reserved

Finding Problems to Solve

The first step in invention is to find a problem you would like to solve! **What matters to you? What do you like to do? Who do you want to help?** Talk to friends and family about problems they have. Write or draw some ideas here:

Print your **Name** and the **Date** when you finish this page. Copyright All Rights Reserved

The Problem I Am Solving

Tell us about the problem you chose to solve. What did you learn about it? Who has this problem? Why is it important to solve?

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

Finding a Solution

Once you have a problem to solve, the next step is to think about an invention to solve it. This is your **solution**! Write or draw some ideas for inventions below. Add extra pages if needed.

Invention Idea 1:	Invention Idea 2:
Invention Idea 3:	Invention Idea 4:

Print your **Name** and the **Date** when you finish this page. Copyright All Rights Reserved

About My Solution - Originality

Choose one invention to work on first. Talk to friends and family about your idea. Record who you talked to about your idea, and if they've heard of your invention before.

People I Talked To:	Have they heard of your idea?

After talking to people about your idea, do you think your invention is original and **unique**? Why or why not?

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

About My Solution - Originality

With help, do some online research to **find out if your invention idea already exists.** Think of some **words** that describe your invention. Use these words to do searches on Google and on shopping sites like Amazon.

What did you find online that is like your idea?

If something like your idea exists, how could your invention be **different** or **better**? Give details. Add more space if needed.

 Copyright All Rights Reserved

About My Solution - Impact

With help if you need it, do some more research to learn how your idea can help the world. Add more pages if needed.

My invention is for:

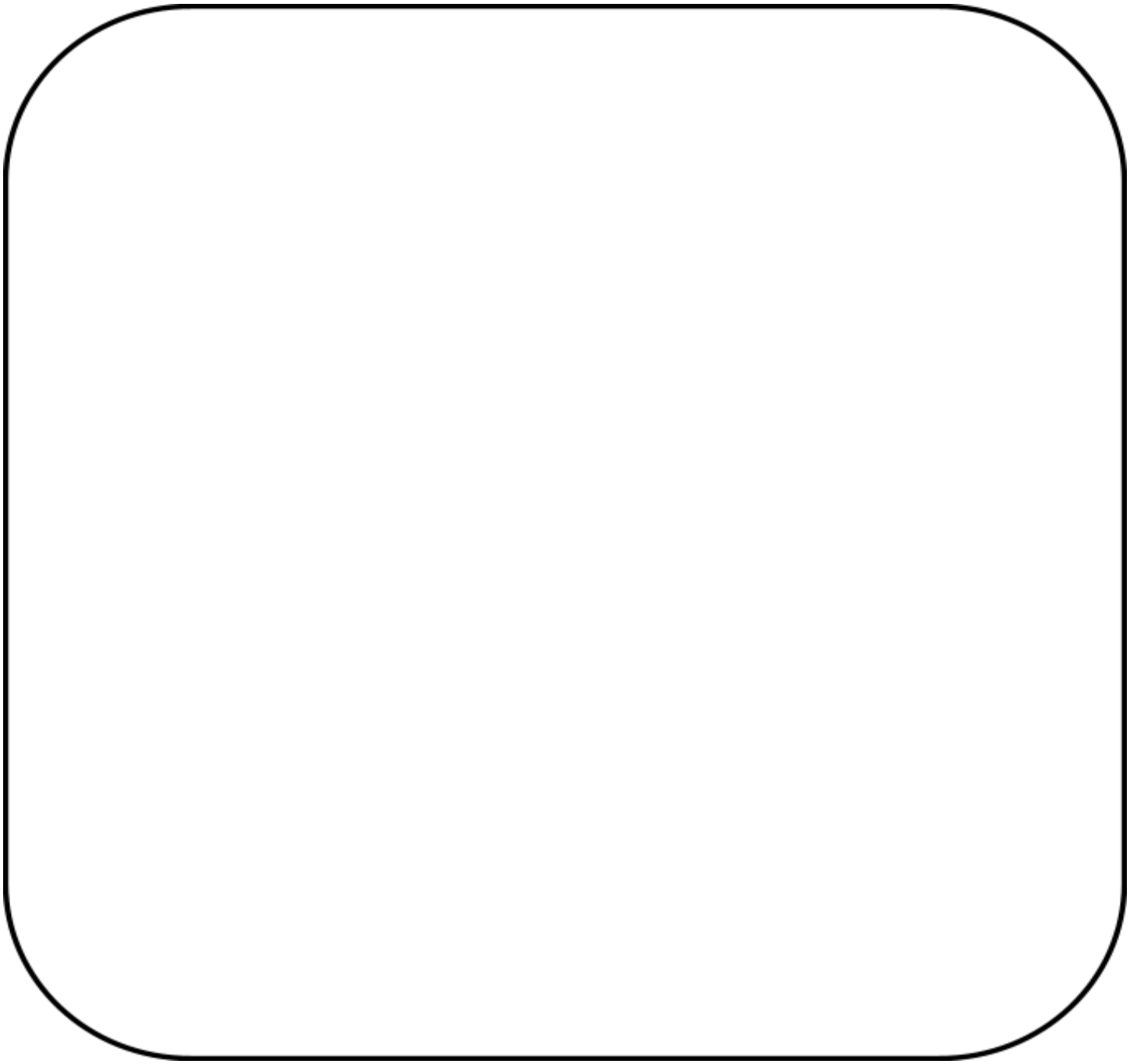
My invention is better than others because:

My invention helps the world because:

 Copyright All Rights Reserved

Designing My Invention

Make a drawing of the invention you are thinking about building. Label all the important parts. Explain how the invention will work. The more detail, the better! If you need more space, use another blank page.



Print your **Name** and the **Date** when you finish this page. Copyright All Rights Reserved

Improving My Design

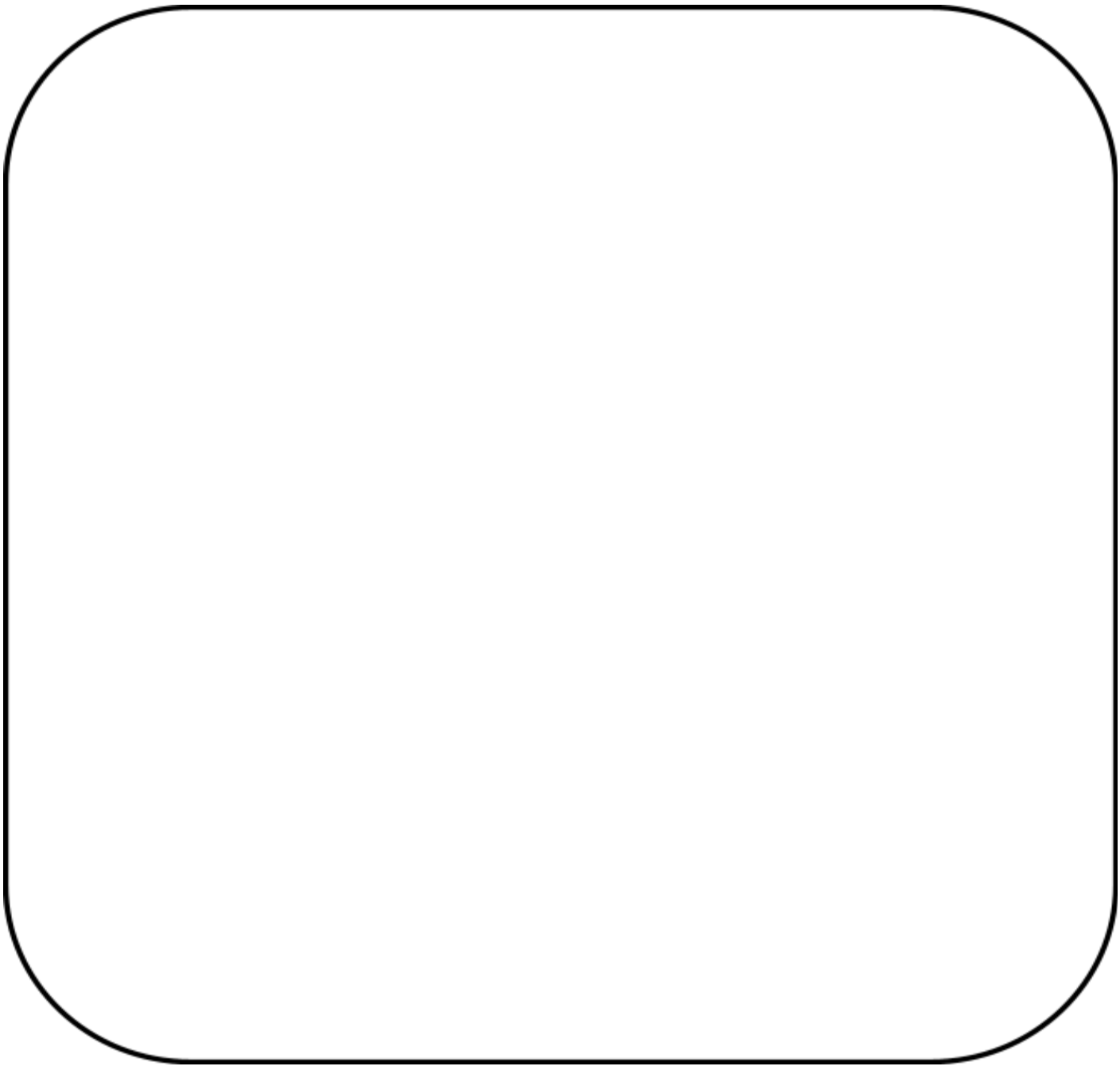
Talk to your teachers and family about your invention and ask them what they think. Show them your drawing. What would they change? Record their feedback below.

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

Improving My Design

How can you make your invention better? Draw a new design below. You may need to make a few designs before you have one you are ready to build!



Print your **Name** and the **Date** when you finish this page. Copyright All Rights Reserved

Intent to Invent - Getting Ready to Build

List or draw the parts you will need to build a model of your invention. This is called a **prototype**. Try to use things you already have at home or school, or are easy to find.

Part:	$ Cost:	Where to Find It:

Who can help you build the invention? _____

Before you build, have your plan checked by your parent or teacher:

Approved by: _____*(teacher or parent signature)*

_____

Print your **Name** and the **Date** when you finish this page. Copyright All Rights Reserved

Building My Prototype

Gather the parts you will need to build your first **prototype**. Make sure you get help when needed to safely build.

Use this space to make notes about how you made your prototype:

Print your **Name** and the **Date** when you finish this page. Copyright All Rights Reserved

Testing My Invention

Once your prototype is built, you'll want to collect some **data** (information) on how it works and how you can improve it!

Can you test your invention? Can you ask others to try it?

What did you do to test the invention? Add the information you collect below. Add more pages if you need extra space.

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

Improving My Invention

What did you find out about your invention? What will you change to make it better? Add your ideas below.

Tip: You may have to change your prototype or build a new one to get the results you want. This is called **iteration.** It's an important part of the invention process! Keep testing and improving until you are happy with your invention.

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

Naming My Invention

What are some words that describe your invention? Think of some possible **names** for your invention. Your invention name should help people to know what it is or does, and hopefully is fun as well!

Some Names for my Invention:

If you like, make a **slogan** (a short, fun saying) and **logo** (simple picture) that can be used to help share your idea.

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

Communication - Prepare to Share

Now it's time to share your invention with the world!
Here are some questions you should be able to answer about your invention. Write out a **script** of what you plan to say, and practice presenting to your family, friends or classmates!

 How did you come up with the idea for this invention?

 What problem are you solving? Who does this problem affect?

 What is your solution? How is it different or unique?

 How did you build your invention, and who helped you?

 How did you test your invention? What did you find out?

 What did you change or improve about your invention?

 What challenges did you face, and how did you overcome them?

 What would you do NEXT to keep working on this invention?

 Why should someone want to use or buy your invention?

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

Invention Steps Checklist

Use this checklist to make sure you've completed every step of the Invention process!

- ☐ **Finding Problems to Solve** - I found problems I'm interested in solving.
- ☐ **Understanding the Problem** - I learned about the problem and why it's important.
- ☐ **Finding a Solution** - I've thought of some inventions to solve the problem.
- ☐ **About My Solution** - I found out if my invention idea already exists.
- ☐ **About My Solution** - I know what makes *my* invention special or unique.
- ☐ **About My Solution** - I know who my invention is for and why it's important.
- ☐ **Designing My Invention** - I've made drawings and planned my design.
- ☐ **Improving My Design** - I got feedback on my design and improved it.
- ☐ **Intent to Invent** - I know the parts and the help I will need to build my prototype.
- ☐ **Building My Prototype** - I've built my invention prototype.
- ☐ **Testing and Improving** - I tested and improved my invention.
- ☐ **Naming My Invention** - I have a great name for my invention.
- ☐ **Sharing My Invention** - I can talk to others about my invention.

_____

Print your **Name** and the **Date** when you finish this page.

Copyright All Rights Reserved

blank page to copy and add wherever is needed

 Copyright All Rights Reserved