

Mini 4-H Models

All Divisions



Draft developed by:
Purdue University Cooperative Extension Service
Area VII 4-H Youth Development Educators

(Blackford, Delaware, Fayette, Franklin, Henry, Jay, Madison, Randolph, Rush, Union, & Wayne Counties)

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Resources and References

Delaware County Mini Arts and Crafts Manual
Franklin County Mini Crafts Manual
Kids 'Squish Book by Loris Theovin Bree and Marlin Bree

February 1998



Mini 4-H Parent's Page



Welcome to the Mini 4-H Program! Mini 4-H is designed for youth to explore a variety of project areas.

Your child received this project manual when enrolling in Mini 4-H. This manual will provide fun, age-appropriate learning activities throughout their year(s) in Mini 4-H and their interest in this project.

As a Mini 4-H parent, your job will be to guide and encourage your child through the activity. It is highly suggested that you do not complete the activities for them. Instead, help them, guide them, work with them, and let them do all that they possibly can. The 4-H Program encourages "learn by doing" ...and is the best educational tool that we can provide for youth.

Additionally, the Mini 4-H program is set up to allow your child to exhibit a project at the 4-H Fair. This project is based upon information within this manual.

The 4-H Fair is an exciting time for 4-H members and families. It is a week that allows community youth to showcase their talents, interests and enthusiasm for learning.

Mini 4-H is fun! Your child will certainly enjoy it. You can have fun too, by guiding and helping as your child participates in the program. Encourage and praise your child as he/she has fun learning and sharing with you.

If you have any questions regarding Mini 4-H or other 4-H programs, please feel free to contact your local Extension Office.



Mini 4-Her's Page



Welcome to Mini 4-H! You are now a member of the 4-H family. You are a special person.

Mini 4-Her's have lots of fun! There are lots of activities for you to explore. You can try new things. You can share it with your friends and family.

Mom, Dad or another adult can help you with your project. Bring your project to the 4-H Fair and lots of people will be able to see what you have done. You also get a ribbon made just for Mini 4-Her's.



Here are some things to know about 4-H.

The 4-H Symbol: A four-leaf clover with an "H" in each leaf

4-H Colors: Green and White

The 4-H Motto: To make the best, better.

The 4-H Pledge: I pledge my *Head* to clearer thinking,
my *Heart* to greater loyalty,
my *Hands* to larger service, and
my *Health* to better living,
for my club, my community,
my country, and my world.

What are Models?

Do you like to make things? Do you see things and ask “how was that made.” Many of us like to make things.

A model is a small version of a real life thing. Many of us like to make models of cars, boats, planes, tanks, and buildings. Making a model can take a lot of time.

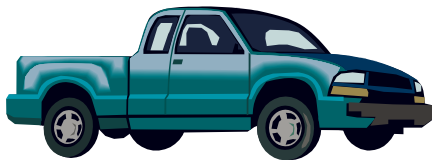
Activity 1 - Observing Things Around Us

You will need:

- Pencil
- tape measure
- this activity sheet

Here is what to do:

1. Look around the place you live in. Look at it from the outside and from the inside. Look at it close and far away.
2. Write down what you see. What color is it? How big is it (use your tape measure)? Does it look old or new? Does it have moving parts? Does it look neat? Is it rough or smooth? Use the chart to keep notes about what you see.
3. Look at a car or truck. Look at it from the outside and from the inside. Look at it up close and far away.
4. Write down what you see. What color is it? How big is it (use your tape measure)? Does it look old or new? Does it have moving parts? Does it look neat? Is it rough or smooth? Use the chart to keep notes about what you see.



Keep notes about the things that you see using the chart on the next page.

| What did you see? | Where you live | Car or truck | Thing 1 <i>example</i> | Thing 2 | Thing 3 |
|--------------------------|-----------------------|---------------------|----------------------------------|----------------|----------------|
| What is it? | | | | | |
| Color(s) | | | | | |
| Rough or smooth? | | | | | |
| How tall? | | | | | |
| How wide? | | | | | |
| How deep? | | | | | |
| Does it look old or new? | | | | | |
| Moving parts? | | | | | |
| Is it neat? | | | | | |

Here are some questions:

1. Why is it important to look at things that you are going to model?

2. Did you see things that you didn't see before? What?

3. Which thing would you most like to make? Why?

Why Make a Model

When you make a model you will have fun. When you make a model you will learn new skills. You will learn to watch things. You will learn to follow instructions. Best of all, you will find a hobby that can last the rest of your life. You may even build models when you grow up and go to work. Many jobs include model building. Engineer and architects often build real working models of what they make before it is made.

Activity 2 – Make a Plastic Model Kit

You will need:

- A Snap-Together Model Kit
- A place where you live to lay out the pieces where they won't be lost.

Here is what to do:

1. Lay all the pieces out so that you can see them.
2. Look at your instructions. Make sure you have all the parts in your instructions. If you don't, put the model back in the box and return it to the place you bought it from. If you have everything, go to step 3.
3. Now read the directions to the end.
4. Now, once more...read the directions to the end.
5. Follow the directions and snap together your model.



Here are some questions:

1. Why did you check the parts?

2. Why did you read the directions?

Activity 3 – The Wonderful World of Legos

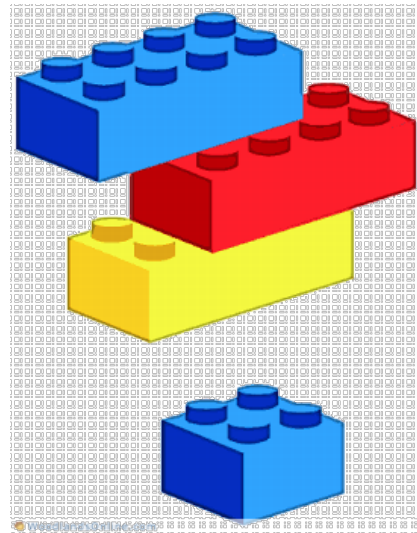
You will need:

Legos of all sizes and kinds

Here is what to do:

1. Spread out a bunch of legos
2. Make two or three models of a larger item. Here are some ideas:

- Car
- House
- Helicopter
- Small town with 5 buildings
- Barn
- Fire department building
- Chair
- School bus



Here are some questions:

1. What models did you make?

2. Which one was the hardest to make?

3. What other kind of Lego models could you make?

Different Kinds of Models

There are different kinds of models. Plastic models are fun and easy to do. Once you snap or glue them together, they look like the real thing. But there are other kinds of models.

Take a look around your house, your school or the library. Do you see other kinds of models? Remember...models are a small version of a real life thing. What are these models made of?

Activity 5 – Other Models

You will need:

- Pencil
- A shoebox
- Construction material (scrap paper, cloth, etc.)
- Glue
- Scissors

Here is what to do:

1. Pick a building or a room. It could be your house, your school or the local library. Your Choice!
2. Look around this building or room. What does it contain?
3. Make a model of the building or room.
4. Use construction paper, toothpicks, anything that will work to build your furniture, carpet, chairs, etc. Don't worry about making the tiny items in the room (such as cups).

Here are some questions:

What are some things that you can find around the house to make a model?

What are some other things that you can use to make a model?

What do you like to use to make models?



What to Exhibit



Here is a list of projects that can be shown at the 4-H Fair. Pick *one* of the projects you would like to exhibit at the fair this year. You do not need to make the projects in any special order. If you have any questions about your projects, please call your leader or the County Extension Office.

- Make one snap together plastic model. Do not paint or glue your model.
- Make a model made out of clay or popsicle sticks.
- Make a model using two to four different items of your choice.
Examples: clay, toothpicks, sticks, ceramics, sugar cubes, etc.
- Visit a museum and look around at different models. Write a short report on your visit. Here are some things that you might want to put in your report.
 - a) What kind of models did you see?
 - b) Ask someone who works at the museum how they build their models. Or do they buy the models already done?
 - c) What was your favorite model? Why did you like this model? How big was the model? How big would the real life item be?
- Make a model using as many different items of your choice. Make a model background to display your model. Example: paint a shoebox so that a plastic model car looks like it is driving down the road, across a field, or through the water or air.

Good Luck and Have Fun!