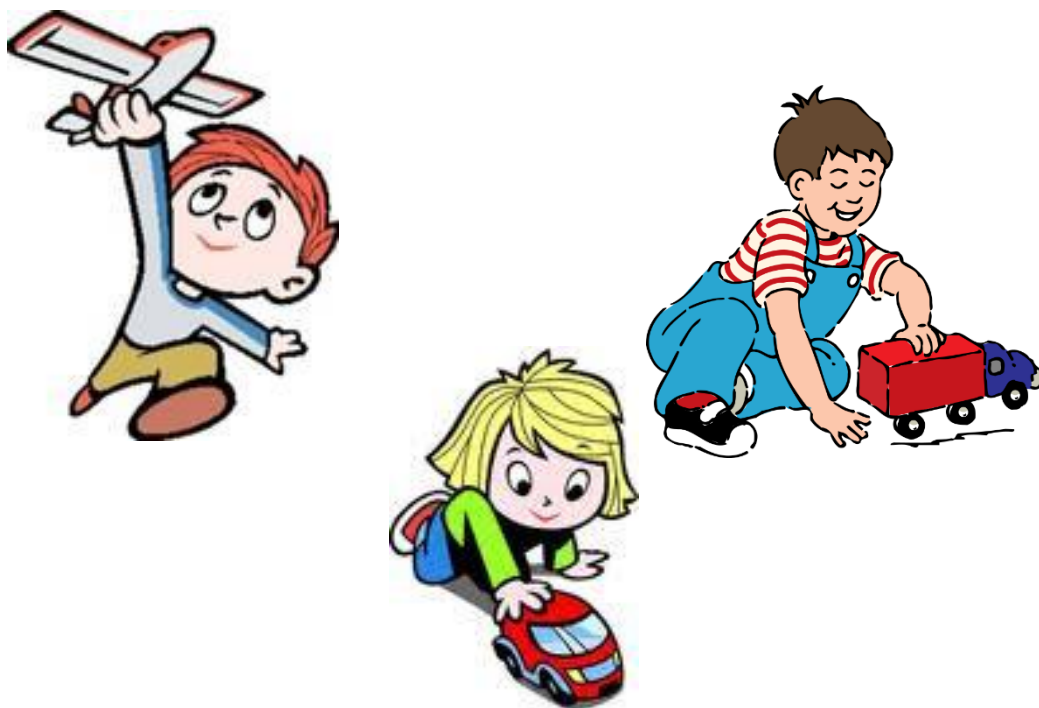




# Mini 4-H

# Models & Legos



We would like to thank Purdue Extension-Elkhart County for developing the majority of this manual.

**Tippecanoe County Mini 4-H Models Manual**  
**Revised March 2020**



# 4-H Facts



**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  
My Health to better living  
For my Club,  
My Community,  
My Country,  
and my World.**



# Mini 4-H Parent's Page



We welcome you and your child to the Mini 4-H program. Mini 4-H is for children in kindergarten, first and second grades during the current 4-H year. Mini 4-H is designed to supplement and introduce Mini 4-H to the Tippecanoe County 4-H program.

As a Mini 4-H parent, your job is to guide your child through the activities. It is 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. Learning by doing is the best educational tool that we can provide for our 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 on 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.

## **Models & Legos Rules**

Kindergarten: Complete one activity in the Mini 4-H Models Manual and complete either one snap together car model or complete one Lego kit of no more than 50 pieces. Either option must be displayed and secured to a wooden board no larger than 12"X12".

First Grade: Complete two activities in the Mini 4-H Models Manual and complete either one snap together car model or complete one Lego kit of no more than 90 pieces. Either option must be displayed and secured to a wooden board no larger than 12"X12".

Second Grade: Complete three activities in the Mini 4-H Models Manual and complete either one snap together a vehicle model or complete one Lego kit of no more than 120 pieces. Either option must be displayed and secured to a wooden board no larger than 12"X12".



## ACTIVITY 1 – LOOK AROUND



**Materials needed for this activity:**      Tape measure      Pencil

### **What you will do:**

1. Look around where you live. Look up close and far away. Look from the outside and the inside.
2. Write down what you see. What color is it? How big is it? Use your tape measure. Does what you see look new or old? Use the chart to keep notes about what you see.

<b>Questions</b>	<b>Thing # 1</b>	<b>Thing # 2</b>	<b>Thing # 3</b>	<b>Sample</b>
What is it?				<i>table</i>
Color(s)				<i>brown</i>
How tall?				<i>18 inches</i>
How wide?				<i>36 inches</i>
How deep?				<i>24 inches</i>
Does it look old?				<i>old</i>
Moving parts?				<i>no</i>

**What did you learn?**

Why is it important to look closely at things you want to build a model of? \_\_\_\_\_

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Did you see things that you did not before? What? \_\_\_\_\_

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Which thing would you most like to make a model of? Why? \_\_\_\_\_

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## ACTIVITY 2 – A FIRST MODEL

The fun thing about models is you can make anything that you want out of a variety of things. There is no right or wrong way to make a model.

You have probably been making models for years and did not even know it. Have you ever played with blocks, like *Legos*®, built a monster with *play dough*, or a tower out of sugar cubes or playing cards? If the answer is yes, then you have already been building models.

### **Materials needed for this activity:**

Any material with which to build a model

Your imagination!

### **What you will do:**

1. Think of something you would like to use to make a model. Try toothpicks, building blocks, cardboard or *Play-Doh*®.
2. Build a model with your materials. Think about making it look like the larger version of the same thing.



**What did you learn?**

What did you use to make your model? \_\_\_\_\_

\_\_\_\_\_

What was your model (car, boat, or tower)? \_\_\_\_\_

\_\_\_\_\_

What other materials could you use to make a model? \_\_\_\_\_

\_\_\_\_\_



**ACTIVITY 3 – MODELS AROUND US**

There are different kinds of models. Plastic models are fun and easy to do. When they are done, they look like the real thing, only smaller.

Take a look around your home or school. Do you see other models? Remember...models are small versions of the real thing. What are these models made of? *Hint...does anyone sleep with a special stuffed animal friend?*

**Materials needed for this activity:** Pencil Activity sheet

**What you will do:**

1. Look around you! Fill in the following chart with models you find in the world around you. This can be at your home, school or museum, etc. See how many you can find.

Questions	Model # 1	Model # 2	Model # 3
Model of what?			
Made of what?			
Where found?			

**What did you learn?**

What are some of your favorite models? \_\_\_\_\_

\_\_\_\_\_

Were you surprised at the number of models around you? \_\_\_\_\_







## ACTIVITY 4 – MAKE A PLASTIC MODEL FROM A KIT

*(Get permission from your parents.)*

### **Materials needed for this activity:**

Snap together model kit

A safe place to lay out the pieces to build your model



### **What you will do:**

1. Select your model. Choose a model that you like! See the rules for your grade level before choosing a model.
  - The cost of your model kit should be reasonable.

### **Now you are ready to build your model!**

1. Find a place to put your model together where it will not be disturbed. You will need a lot of time to do a good job.
2. Lay out all the pieces so you can see them.
3. Look at the instructions. Make sure you have all the parts in your instructions. If you do not, put the model back in the box and get a different model. You cannot finish a model without all the parts.
4. Read all the instructions. You will need an adult to help you.
5. Now you are ready to begin putting together your model.

### **What did you learn?**

What kind of a model did you build? \_\_\_\_\_

Was it hard to build your model? \_\_\_\_\_

How long did it take you to build your model? \_\_\_\_\_

Who helped you build your model? \_\_\_\_\_

### **Displaying Your Model:**

You will want to find a safe place to display your model. You place it on a board or very stiff cardboard. You may want to decorate the base so it looks like a road (car) or a runway (airplane). Use your imagination. Keep it in a safe place where it won't be knocked off and broken.



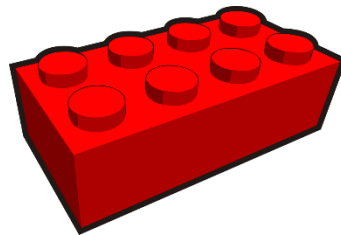
## **ACTIVITY 5 – Complete a Lego Kit**

*(Get permission from your parents.)*

### **Materials needed for this activity:**

Lego kit

A safe place to lay out the pieces to build your model



### **What you will do:**

1. Select your kit. Choose a kit that you like and that follows the rules.
  - The cost of your kit should be reasonable.

### **Now you are ready to build your model!**

1. Find a place to put your kit together where it will not be disturbed. You will need a lot of time to do a good job.
2. Lay out all the pieces so you can see them.

3. Look at the instructions. Make sure you have all the parts in your instructions. If you do not, put the Legos back in the box and get a different kit. You cannot finish a Lego kit without all the parts.
4. Read all the instructions. You will need an adult to help you.
5. Now you are ready to begin putting together your kit.

**What did you learn?**

What kind of Lego kit did you build? \_\_\_\_\_

Was it hard to build your kit? \_\_\_\_\_

How long did it take you to build your kit? \_\_\_\_\_

Who helped you build your Lego kit? \_\_\_\_\_

**Displaying Your Model:**

You will want to find a safe place to display your kit. You will want to secure it on a board or very stiff cardboard. You may want to decorate the base, so it looks like a road (car) or a runway (airplane). Use your imagination. Keep it in a safe place where it won't be knocked off and broken.

## Record Sheet

Name \_\_\_\_\_ Grade \_\_\_\_\_

How much did your model or Lego kit cost? \_\_\_\_\_

How long did you work on your model or Lego kit? \_\_\_\_\_

How many models and/or Lego kits have you built? \_\_\_\_\_

Why did you check the parts after opening the model package? \_\_\_\_\_

\_\_\_\_\_

Why did you read the instructions before working on your model? \_\_\_\_\_

\_\_\_\_\_