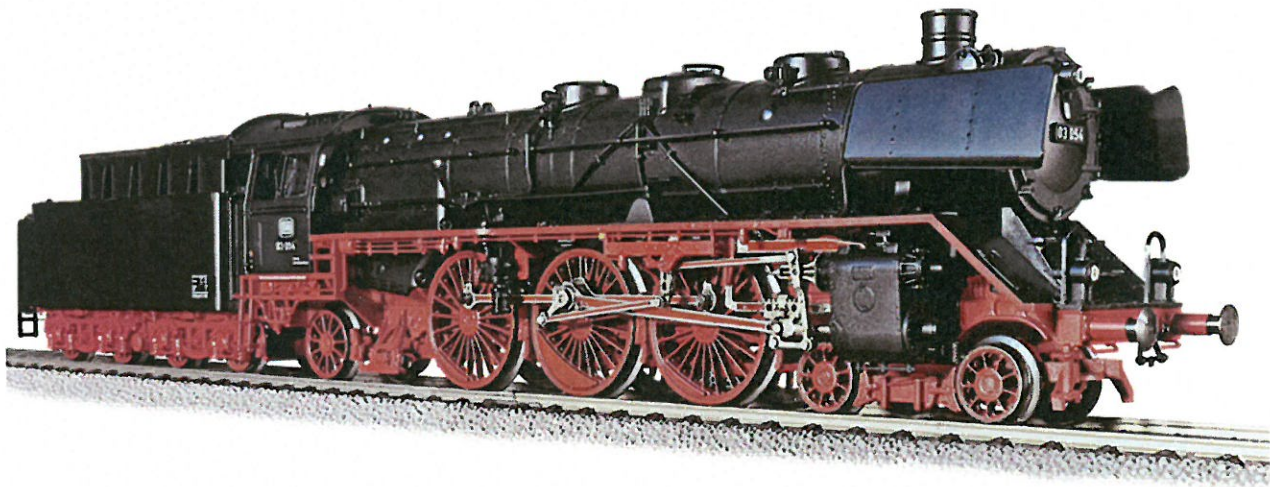


Noble County Mini 4-H



Models

Mini 4-H Helper's page

Welcome to the Mini 4-H Program! Mini 4-H is designed for children in grades K-2 to explore a variety of project activity areas and to interact with caring adults and other children.

Children receive this project activity manual when they enroll in Mini 4-H. This manual and the manuals on various other topics will provide fun, age-appropriate learning activities throughout their year(s) in Mini 4-H.

As a Mini 4-H adult helper, your job will be to guide and encourage each child through the activities. A wide range of activities is provided to allow you to choose the ones most appropriate for the children you are working with. It is strongly suggested that you do not complete the activities for them, guide them, work with them and let them do all that they possibly can. 4-H believes in allowing children to learn by doing. The Mini 4-H project activities are hands-on learning opportunities designed to provide a meaningful educational experience for youth.

Additionally, the Mini 4-H program is set up to allow children to display a project activity that is based upon information in this manual. Some children may want to exhibit at the 4-H Fair. The 4-H Fair is an exciting week that allows community youth to showcase their enthusiasm for learning. Children may choose to display a project activity they did by themselves or one they did with a group. Other children may choose to showcase their work in other ways, such as displaying it in a special place in their own home.

Mini 4-H is fun! Children will certainly enjoy it. You can have fun too, by guiding and helping as children participate in the program. Encourage and praise the children as they have fun learning and sharing with you. If you have any questions regarding Mini 4-H or other 4-H programs, please contact the Extension Office in your county.

Helper's Tips

The Mini 4-H Program can be used with individual children, but it works best when used in a group of 2 or more children. Children working cooperatively in groups develop positive images of themselves and their ideas. Other ways adult helpers can maximize the benefits of Mini 4-H are to:

- **Work on a subject interesting to the child by encouraging children to choose the content area.** Look through this manual and choose the project activities based on the interests and skill levels of the children
- **Relax and have fun.** Some children will want to finished their activities, others may not. There is no need to pressure children of this age to finish an activity, because the real learning takes place while they participate in the activity and interact with others. The finished project should not be the main focus. The knowledge children gain while they explore new areas and experiment with new ideas should be the primary goal.
- **Remain flexible and adapt to the changing needs of the children.** Restlessness or boredom may indicate a need to stop the activity and come back to it later.
- **Encourage children to talk and work with each other.** Children learn best when they are encouraged to freely share their reactions and observations. You may want to ask the children about what they did during an activity, what happened, what was the easiest, and what they like the most.

This manual contains activities for children that allow for a wide range of abilities and provide practice for developing a variety of skills.



Mini 4-H Page

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

Here are some things to know about 4-H.

The 4-H symbol is a four-leaf clover with an "H" in each leaf. Clover is a plant that grows in fields, yards and along roadsides. Most clovers have three leaves. Sometimes, if you look very carefully, you may get lucky and find a special clover with four leaves. A four-leaf clover is used as the symbol for 4-H to let everyone know 4-H is a special kind of group.



The 4-H colors are green and white. The four-leaf clover is green and the "H" in each leaf is white.

A group motto is a saying that tells people what is important to the group. **The 4-H motto** is "To make the best better." When something is better than all the others it is the best. Think about a time when you did your best. Maybe you threw a ball farther than you have ever thrown it before. Now, think about some ways you could do better. You may be able to throw farther by practicing for a while or by watching someone who can throw farther than you, to see how they throw so far. Even if you throw the ball farther than you have ever thrown it before. There are still ways that you can do better the next time. 4-H encourages you to always try to do better, even if you are doing the best you have ever done.

*"To make the
best better"*

The 4-H Pledge

A pledge is a promise you make to yourself and to the people around you. The 4-H pledge is a bold print below.


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 do these words mean?

I Pledge my Head  to clearer thinking, means I promise to use my head to make good choices.

My heart  to greater loyalty, means to use my heart to be a good friend.

My hands  to larger service, and, means to use my hands to do helpful things for others.

My health  to better living, means to take care of my body and to show others how to live in a healthy way.

For my club, my community, my country  and my world, means to help my group, my community, my country and my world be happy and safe for everyone.

* What Are Models? *

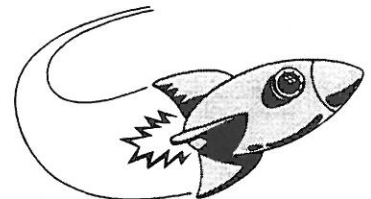
Do you like to make things? Do you see things and ask, how was that made? Many of us like to make things.

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 to find the following things around the house:

- pencil
- tape measure
- this activity sheet



Here is what you do:

1. Look around the place you live in. Look at it from the outside and from the inside. Look at it up 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 new or old? 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 the 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 new or old? 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..

What did you see?	Where you live	Car or Truck	Thing 1 example	Thing 2	Thing 3
What is it?			Table		
Color(s)			brown		
Rough or Smooth?			Rough		
How Tall?			18 inches		
How Wide?			36 inches		
How Deep?			24 inches		
Does it look New or Old?			Old		
Moving Parts?			No		
Is It Neat?			Very Neat		

Here are some questions:

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

Did you see things that you didn't see before? What? _____

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. Engineers 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 these things before you start.

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

Here is what you 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:

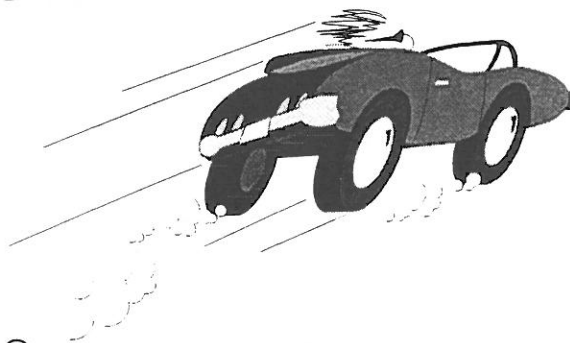
Why did you check the parts? _____

Why did you read the directions? _____

▼ Activity 3 -- The Wonderful World of Legos©

Items needed:

-Legos of all sizes and kinds



Here is what you do:

1. Spread out a bunch of Legos©.
2. Make two or three models of a larger item. Here are some ideas....
 - Car
 - Helicopter
 - Barn
 - Chair
 - House
 - Small Town with 5 Buildings
 - Fire Department Building
 - School Bus

Here are some questions:

What models did you make? _____

Which one was the hardest to make? _____

What other kind of Lego© models could you make? _____

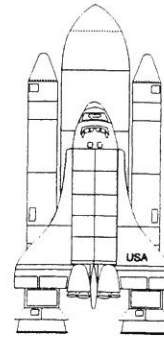
▼ Activity 4 -- A Toothpick Model

Items needed:

- Lots of toothpicks
- Glue (white school glue)

Here is what you do:

1. Decide what kind of model you can make with toothpicks.
Here is a hint ... toothpicks are straight. The model would need to have straight sides.
2. Make a model of a larger item. Here are some ideas....
 - House
 - Barn
3. Using a little bit of glue, put your model together.

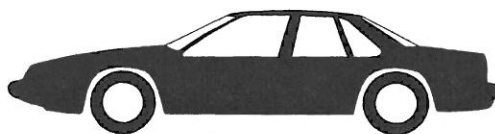


Here are some questions:

Was this easy or hard to do? Why? _____

Why did you use very little glue? _____

What happens if you use too much glue? _____



* Different Kinds of Models *

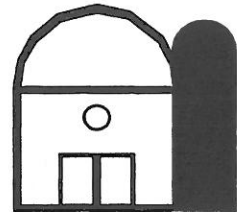
There are different kinds of models. Plastic models are fun and easy to do. Once you snap or glue them together, they look like the real thing. But there are other kinds of models.

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

Items needed:

- pencil
- a shoebox
- construction material (scrap paper, cloth, etc.)
- glue
- scissors



Here is what you do:

1. Pick a building or room. I 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? _____

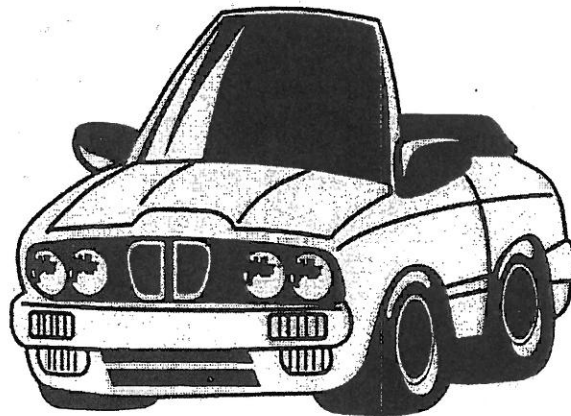
What are some other things that you can use to make models? _____

What do you like to make models out of? _____

* Begin Your First Model *

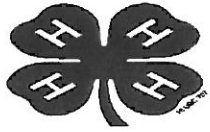
The fun thing about making models is that you can make anything that you want. There is not a right or wrong model.

Try making your first model out of something at home. This might be toothpicks, sticks, sugar cubes, playing cards or anything else that you can glue or stick together. A popular thing that many models are made of is clay or "Playdough".



Once you have some model making experience, try a plastic model. But don't forget ... you need to ask an adult for permission!

Before you know it, you'll have a room full of models!



4-H Fair Exhibit

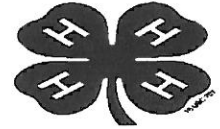


Exhibit – Kindergarten

A simple, snap together model from a kit.

Exhibit – 1st Grade:

An exhibit different from your project last year.

Exhibit – 2nd Grade:

An exhibit different from your project last year.

All projects are to have a name label on them. You will receive a Mini 4-H newsletter in the mail prior to the Fair that will contain name labels.

If you have any questions about your project, please call the Extension Office at 636-2111 or 1-800-601-5826.