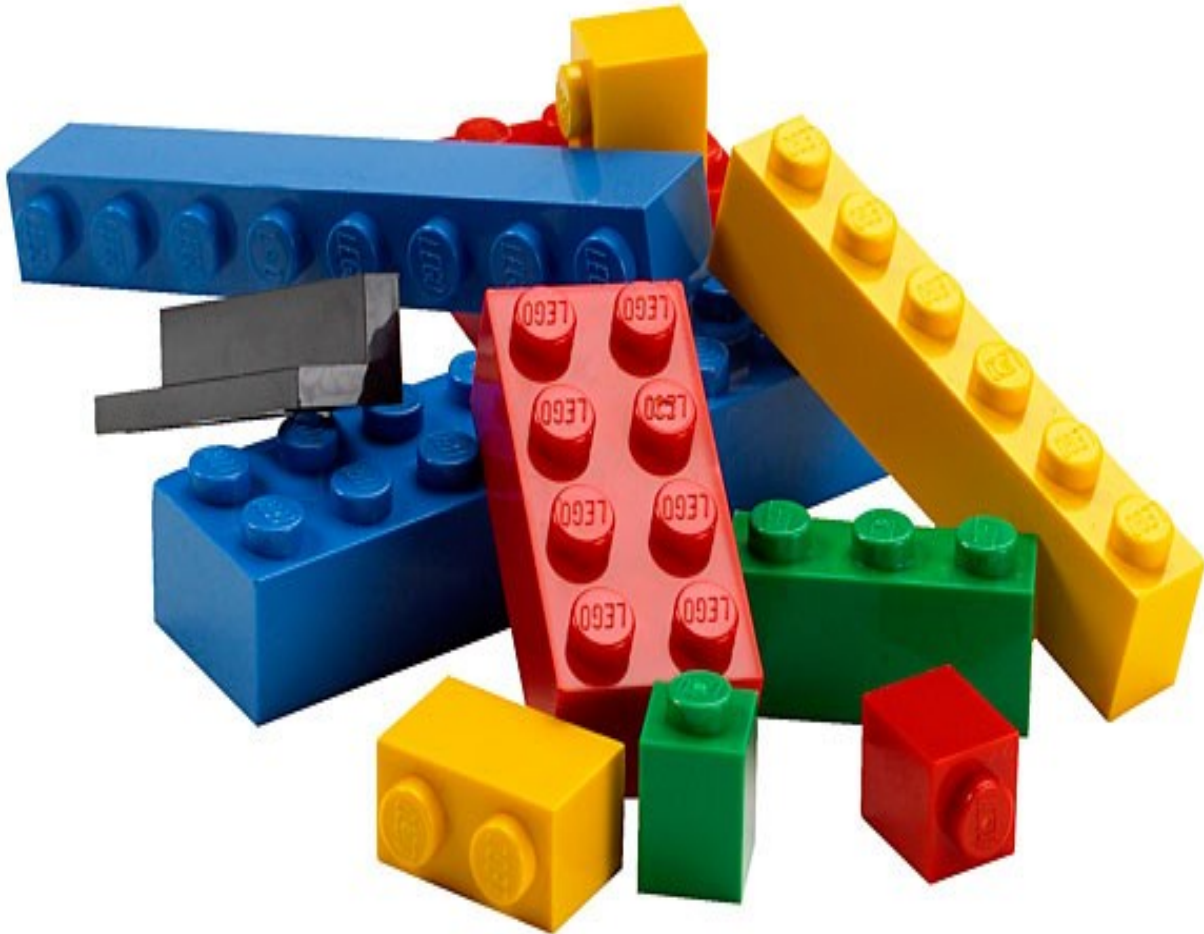


Montgomery County Mini 4-H Legos



Draft Developed by:

Purdue University Cooperative Extension Service

Montgomery County 4-H Development Educator, Adapted from Purdue Extension,
Steuben County and Purdue Extension Area 7 Youth Development Extension
Educators

PURDUE
UNIVERSITY®

Extension
MONTGOMERY COUNTY

Indiana Academic Standards

Following is a list of Science Standards that the activities in this book meet.

Kindergarten

- K.1.2 Begin to demonstrate that everybody can do science.
- K.3.1 Describe objects in terms of the materials they are made of, such as clay, cloth, paper, etc.
- K.5.1 Use shapes, such as circles, squares, rectangles, and triangles, to describe different objects.

Grade 1

- 1.5.2 Make and use simple picture graphs to tell about observations.
- 1.6.1 Observe and describe that models, such as toys, are like the real things in some ways but different in others.

Grade 2

- 2.1.6 Use tools to investigate, observe, measure, design, and build things.
- 2.2.4 Assemble, describe, take apart, and/or reassemble constructions using such things as interlocking blocks and erector sets.
Sometimes pictures or words may be used as a reference.



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 motto is "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 time 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 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-Hers 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 will also get a ribbon made just for Mini 4-Hers!

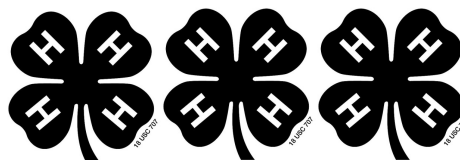
Things to Know About 4-H

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

The 4-H Colors: Green and white

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

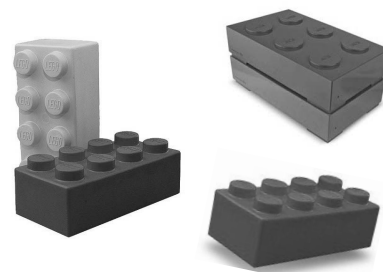
The 4-H Pledge: I pledge my HEAD to clearer thinking,
my HEART to greater loyalty,
my HANDS to larger service, and
my HEALTH to better living, for my club, my
community, my country, and my world.



Activity 1 – The World of Legos®

Items needed:

- Legos of all sizes and kinds



Here is what you do:

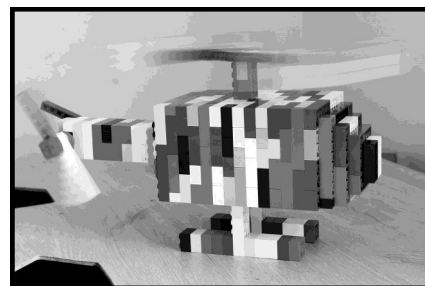
1. Spread out a bunch of Legos.®
2. Make 2 or 3 models of a larger item. Here are some ideas:
 - Car
 - Helicopter
 - Barn
 - Chair
 - House
 - Small town with 5 buildings
 - Fire Department building
 - School bus

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?



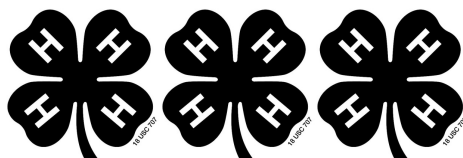
Activity 2 — Construction

Look at a brick wall. Think about how the bricks are laid. Keeping this in mind, draw the next three layers of this brick wall.



Draw an example of a bridge.

What shapes do you see in your bridge, or what shapes did you use to draw it (squares, rectangles, triangles, etc.)?





What Do I Exhibit?



Here is a list of projects that can be shown at the 4-H Fair. Pick one project you would like to try. Next year, choose a different exhibit. You do not have to make them in any order. If you have any questions, please call the Extension Office. There are people there who can help you.

- A poster titled "Lego®" with 4-6 photos of Lego-style models (kit and/or your own creating) you have constructed in the last year.
- A store-bought kit model made with any Lego-type bricks, that is not larger than 8"x8"x8".
- A Lego-type brick model made with the use of a kit or plan, that is not larger than 8"x8"x8".
- You are to complete the Mini 4-H Lego® Record Sheet (included at the end of this manual to turn in when you take your exhibit to the fair.

Montgomery County Mini 4-H Mini 4-H Legos Record Sheet



Name: _____

When did you begin constructing your exhibit:

Briefly describe your project exhibit.

What do you like best about your Mini 4-H project?

List two things you learned about this subject?

1. _____
2. _____

Name two types or brands of toys you can build with.

1. _____
2. _____