

# Construction Toys

## 4-H Record Sheet

Record for Year \_\_\_\_\_

### The Basics

Project Division (circle one):

Beginner (grades 3-5)

Intermediate (grades 6-8)

Advanced (grades 9-12)

Name \_\_\_\_\_ 4-H Club \_\_\_\_\_

Years in 4-H \_\_\_\_\_ Grade \_\_\_\_\_ Years in Project \_\_\_\_\_ Time spent constructing \_\_\_\_\_

### The Logistics

Give a brief description of your display/model/scene. \_\_\_\_\_

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Why did you select this display/model/scene? \_\_\_\_\_

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What is your favorite part of the display/model/scene? \_\_\_\_\_

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How did you obtain the construction toys? \_\_\_\_\_

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### Research it!

List six different kinds of construction toys:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_



Which shape is generally accepted as the strongest shape to utilize in construction of buildings, bridges, and other architecture? Why? \_\_\_\_\_

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Think about a brick wall. Why is an overlapping-brick design sturdier than bricks simply stacked on top of one another? \_\_\_\_\_

Where might you find the following shapes or geometric attributes "from nature" and "made by man"?

	Found in Nature	Made by Man
Circle		
Spiral		
Triangle		
Pentagon/Hexagon/Octagon,etc.		

List an example of something you think the following types of engineers might "engineer."

Civil Engineer	
Chemical Engineer	
Electrical Engineer	
Mechanical Engineer	

**Forward Thinking...**

Look in a book, magazine, or on the internet and find a construction toy display/model/scene that you think is really neat. Copy or print a picture and attach it. What makes the display/model/scene you selected appeal to you? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Is there something about the picture you selected that you could incorporate in the future? \_\_\_\_\_  
If yes, what part? \_\_\_\_\_

What design ideas do you have for next year? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Talk about it!**

What did you like most about completing the Construction Toys project? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

What is one thing you learned or sparked your interest as a result of completing the Construction Toys project? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Who might you encourage to try the Construction Toys project next year? \_\_\_\_\_

