



## Pack 333 Salisbury, NC

[www.cubpack333.org](http://www.cubpack333.org)



## CRAFTSMAN

### **Do these:**

1. Explain how to safely handle the tools that you will use for this activity badge safely.
2. With adult supervision and using hand tools, construct two different wooden objects you and your Webelos den leader agree on, such as the items listed below. Use a coping saw or jigsaw for these projects. Put them together with glue, nails, or screws. Paint or stain them.

Book rack	Napkin holder
Shelf	Animal cutouts
Bulletin board	Garden tool rack
Weather vane	Lid holder
Tie rack	Mailbox
Letter holder	Birdhouse
Notepad holder	Desk nameplate
Toolbox	Letter, Bill, and Pencil holder
Towel rack	Bread box
Recipe holder	Key rack
Lamp stand	Measuring cup rack
Kitchen knife rack	Measuring spoon rack
Kitchen utensil rack	

3. Make a display stand, or box to be used to display a model or an award. Or make a frame for a photo or painting. Use suitable material.
4. Make four useful items using materials other than wood that you and your Webelos den leader agree on, such as clay, plastic, leather, metal, paper, rubber, or rope. These should be challenging items and must involve several operations.



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**ENGINEER**

***Do both of these:***

1. Talk to an engineer, surveyor, or architect in your area about the different occupations in engineering. Create a list that tells what they do
2. Draw a floor plan of your house. Include doors, windows, and stairways.

***And do four of these:***

3. Visit a construction job. Look at a set of plans used to build the facility or product. Tell your Webelos den leader about these. (Get permission before you visit.)
4. Visit a civil engineer or surveyor to learn how to measure the length of a property line. Explain how property lines are determined.
5. Tell about how electricity is generated and then gets to your home.
6. Construct a simple working electrical circuit using a flashlight battery, a switch, and a light.
7. Make drawings of three kinds of bridges and explain their differences. Construct a model bridge of your choice.
8. Make a simple crane using a block and tackle and explain how the block and tackle is used in everyday life.
9. Build a catapult and show how it works.
10. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Mathematics.



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### HANDYMAN

#### **Do these:**

1. With your parent, guardian, or Webelos den leader, complete the **Responsibility Character Connection**.
  - a. **Know:** List all the tasks you can think of that are necessary in keeping a household in good shape. Name the tasks that are your responsibility. Tell what it means to be responsible for these tasks.
  - b. **Commit:** Talk about what happens when people don't do their jobs. Tell why it is important to be helpful and to be responsible. list ways that you can be more responsible on your own.
  - c. **Practice:** Choose one of the requirements and show how you are responsible by doing that task well for two weeks.

#### **And do six of these:**

2. With adult supervision, wash a car.
3. Help an adult change a tire on a car.
4. With adult supervision, replace a bulb in the taillight, turn signal, or parking light or replace a headlight on a car.
5. With adult supervision, show how to check the oil level and tire pressure on a car.
6. Make a repair to a bicycle, such as tightening the chain, fixing a flat tire, or adjusting the seat or handlebars.
7. Properly lubricate the chain and crank on a bicycle.
8. Properly inflate the tires on a bicycle.
9. Change the wheels on a skateboard or pair of inline skates.
10. Replace a light bulb in a fixture or lamp.
11. With adult supervision, arrange a storage area for household cleaners and other dangerous materials where small children cannot reach them.
12. Build a sawhorse or stool to be used around your home.
13. Help take care of the lawn.
14. Arrange a storage area for hand tools or lawn and garden tools.
15. Clean and properly store hand tools or lawn and garden tools in their storage area.
16. Label hand tools or lawn and garden tools.
17. Put together a toolbox for common repairs around the house. Be sure the toolbox and tools are stored safely.



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**SCIENTIST**

**Do these:**

1. Read Bernoulli's Principle. Show how it works.
2. Read Pascal's Law. Tell about some inventions that use Pascal's law.
3. Read Newton's first law of motion. Show in three different ways how inertia works.
4. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Science.

**And do six of these:**

5. Show the effects of atmospheric pressure.
6. Show the effects of air pressure.
7. Show the effects of water pressure. This may be combined with atmospheric pressure or with air pressure.
8. With adult supervision, build and launch a model rocket. (NOTE: You must be at least 10 years old to work with a model rocket kit sold in stores.) Describe how Newton's third law of motion explains how the rocket is propelled into the sky.
9. Explain what causes fog. Show how this works.
10. Explain how crystals are formed. Make some.
11. Explain how you use your center of gravity to keep your balance. Show three different balancing tricks.
12. Show in three different ways how your eyes work together, and show what is meant by an optical illusion.
13. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Weather.
14. While you are a Webelos Scout, earn the Cub Scout Academics belt loop for Astronomy.