



## Architecture Merit Badge Workbook

# SCOUTMASTER BUCKY

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Architecture merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

<https://scoutmasterbucky.com/merit-badges/architecture/architecture-pamphlet.pdf>

<https://scoutmasterbucky.com/merit-badges/architecture/architecture-cpp.pdf>

**REQUIREMENTS 3a and 3b REQUIRE COUNSELOR PERMISSION / APPROVAL.**

**REQUIREMENTS 1b, 3a, and 3b REQUIRE PARENT / GUARDIAN PERMISSION / APPROVAL.**

**REQUIREMENT 1a:** Tour your community and list the types of buildings you see. Try to identify buildings that can be associated with a specific period of history or style of architecture.

**BUILDING #1:**

Name or Basic Description of Building:

Notes:

**BUILDING #2:**

Name or Basic Description of Building:

Notes:



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## BUILDING #3:

Name or Basic Description of Building:

Notes:

## BUILDING #4:

Name or Basic Description of Building:

Notes:

## BUILDING #5:

Name or Basic Description of Building:

Notes:



**REQUIREMENT 1a:** Make a sketch of the building you most admire.



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**REQUIREMENT 1b:** Select a historical architectural achievement that has had a major impact on society. Using resources such as the internet (with your parent or guardian's permission), books, and magazines, find out how this achievement has influenced the world today. Tell your counselor what you learned.

**PARENT/GUARDIAN PERMISSION:** IS REQUIRED.

\_\_\_\_\_  
Parent's / Guardian's Name

\_\_\_\_\_  
Phone or Email

\_\_\_\_\_  
Parent's / Guardian's Signature

\_\_\_\_\_  
Date ☐ *approved*

Selected Historical Architectural Achievement:

Major impact on society:

How this achievement has influenced the world today:



**Leave No Trace 7 Principles**

**PRINCIPLE 1**



TM

Plan Ahead & Prepare

**PRINCIPLE 2**



TM

Travel & Camp on Durable Surfaces

**PRINCIPLE 3**



TM

Dispose of Waste Properly

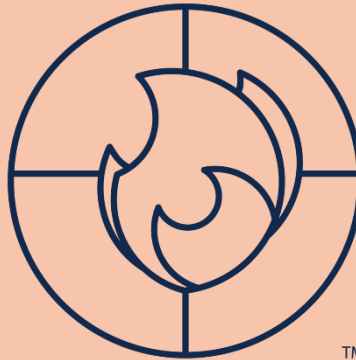
**PRINCIPLE 4**



TM

Leave What You Find

**PRINCIPLE 5**



TM

Minimize Campfire Impacts

**PRINCIPLE 6**



TM

Respect Wildlife

**PRINCIPLE 7**



TM

Be Considerate of Others



## **THE OUTDOOR CODE**

*AS AN AMERICAN, I WILL DO MY BEST TO -*

### **BE CLEAN IN MY OUTDOOR MANNERS**

I will treat the outdoors as a heritage.

I will take care of it for myself and others.

I will keep my trash and garbage out of lakes, streams, fields, woods, and roadways.

### **BE CAREFUL WITH FIRE**

I will prevent wildfire.

I will build my fires only where they are appropriate.

When I have finished using a fire,

I will make sure it is cold out.

I will leave a clean fire ring, or  
remove all evidence of my fire.

### **BE CONSIDERATE IN THE OUTDOORS**

I will treat public and private property with respect.

I will use low-impact methods of hiking and camping.

### **BE CONSERVATION-MINDED**

I will learn how to practice good conservation of soil, water, forests, minerals, grasslands, wildlife, and energy.

I will urge others to do the same.





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**REQUIREMENT 2:** In following the Leave No Trace Seven Principles and the Outdoor Code, Scouts pledge to "Travel and Camp on Durable Surfaces" and to "Leave What You Find" and to "be conservation-minded."

**REQUIREMENT 2a:** Discuss with your counselor the term sustainable architecture.

Notes:

**REQUIREMENT 2a:** Identify three features typical of green buildings.

Feature #1:

Feature #2:

Feature #3:



**REQUIREMENT 2b:** Discuss with your counselor the difference between renewable building materials and recycled building materials, and how each can be used in construction.

Notes:





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**REQUIREMENT 2c:** Discuss with your counselor the relationship of architecture with its surrounding environment and the community.

Notes:

**REQUIREMENT 2d:** Discuss with your counselor how entire buildings can be reused rather than torn down when they no longer serve their original purpose.

Notes:



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**DO ONE OF THE FOLLOWING (3A, 3B, or 3C) FOR REQUIREMENT 3**

**REQUIREMENT 3a:** With your parent or guardian's and counselor's permission and approval, arrange to meet with an architect. Ask to see the scale model of a building and the drawings that a builder would use to construct this building.

Architect and Architectural Firm:

Date and Location of Meeting:

**PARENT/GUARDIAN PERMISSION / APPROVAL:** IS REQUIRED.

\_\_\_\_\_  
Parent's / Guardian's Name

\_\_\_\_\_  
Phone or Email

\_\_\_\_\_  
Parent's / Guardian's Signature

\_\_\_\_\_  
Date ☐ *permission / approved*

**COUNSELOR PERMISSION / APPROVAL:** IS REQUIRED.

\_\_\_\_\_  
Counselor's Name

\_\_\_\_\_  
Phone or Email

\_\_\_\_\_  
Counselor's Signature

\_\_\_\_\_  
Date ☐ *permission / approved*

Notes:



**REQUIREMENT 3a:** Discuss why the different building materials were selected.

Notes:

**REQUIREMENT 3a:** Look at the details in the drawings and the model to see how the materials and components are attached to each other during construction.

Notes:



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**REQUIREMENT 3b:** With your parent or guardian's and counselor's permission and approval, arrange to meet with an architect at a construction site. Ask the architect to bring drawings that the builder uses to construct the building.

**TO VISIT A CONSTRUCTION SITE WILL REQUIRE ADVANCE PLANNING. YOU WILL NEED PERMISSION FROM YOUR PARENTS, COUNSELOR, THE ARCHITECT, AND THE CONSTRUCTION SITE MANAGER. A CONSTRUCTION SITE IS A VERY DANGEROUS PLACE. WHILE THERE, YOU WILL NEED TO CLOSELY FOLLOW THE SITE MANAGER'S DIRECTIONS AND COMPLY WITH ALL THE SAFETY PROCEDURES, INCLUDING WEARING A HARD HAT, PROTECTIVE EYEWEAR, AND PROPER FOOTWEAR. BE AWARE OF THE CHANGING CONDITIONS AT THE SITE, AND STAY WITH THE ARCHITECT OR SITE MANAGER.**

Architect and Architectural Firm:

Construction Site Location and Date of Visit:

**PARENT/GUARDIAN PERMISSION / APPROVAL:** IS REQUIRED.

Parent's / Guardian's Name

Phone or Email

Parent's / Guardian's Signature

Date ☐ *permission / approved*

**COUNSELOR PERMISSION / APPROVAL:** IS REQUIRED.

Counselor's Name

Phone or Email

Counselor's Signature

Date ☐ *permission / approved*

Notes:



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**REQUIREMENT 3b:** While at the site, discuss why the different building materials being used were selected.

Notes:

**REQUIREMENT 3b:** Discuss how the different building materials and components are attached to each other during construction.

Notes:



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### REQUIREMENT 3c:

Interview someone who might be your client (such as a prospective homeowner or business owner) if you were an architect. Find out what your client's requirements would be for designing a new home or business building. Write a short program including a list of requirements for the project, the functions of the building and site, how the functions relate to one another, and the goals of the project.

Who You Interviewed:

Notes:

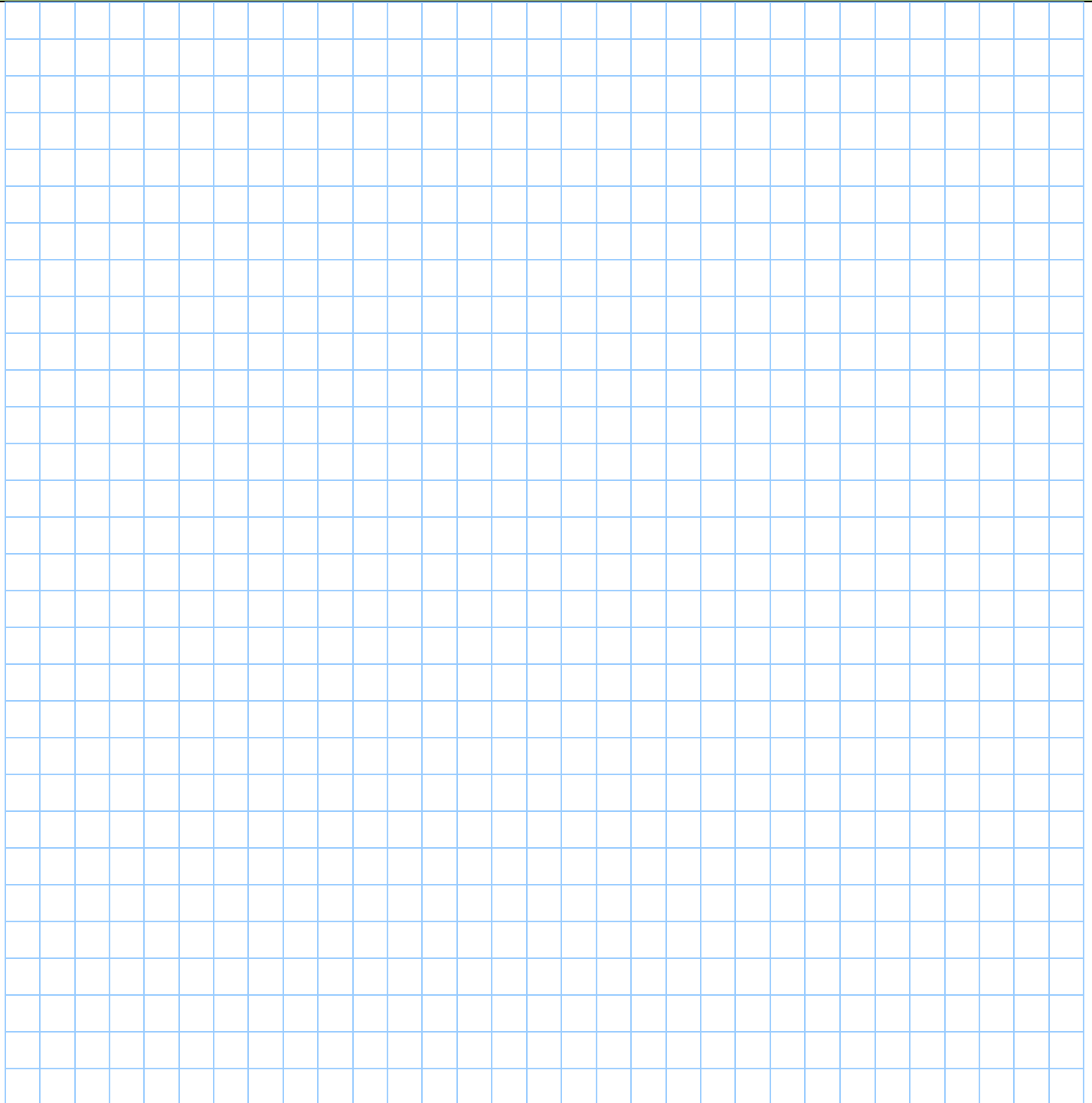


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### REQUIREMENT 4:

Measure a room such as one where you live or where your troop meets. Make an accurately scaled drawing of the room's floor plan showing walls, doors, closets, windows, and any built-in furniture or cabinets. Neatly label your drawing with the following: your name, the date, what room you drew, and the scale of the drawing. (Drawing scale: 1/4 inch = 1 foot).





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**REQUIREMENT 5:** Find out about three career opportunities in architecture.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

**REQUIREMENT 5:** Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor.

Selected Career Opportunity:

Educational Requirements:

Training Requirements:

Experience Requirements:

**REQUIREMENT 5:** Explain why this profession might interest you.

Notes: