



Architecture

Merit Badge Workbook



This workbook can help you but you still need to read the merit badge pamphlet.

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show", "tell", "explain", "demonstrate", "identify", etc, that is what you must do.

Merit Badge Counselors may not require the use of this or any similar workbooks.

No one may add or subtract from the official requirements found in Boy Scout Requirements (Pub. 33216 – SKU 637685).

The requirements were last issued or revised in 2015 • This workbook was updated in May 2017.

Scout's Name: _____ Unit: _____

Counselor's Name: _____ Counselor's Phone No.: _____

<http://www.USScouts.Org> • <http://www.MeritBadge.Org>

Please submit errors, omissions, comments or suggestions about this **workbook** to: Workbooks@USScouts.Org
 Comments or suggestions for changes to the **requirements** for the **merit badge** should be sent to: Merit.Badge@Scouting.Org

1. Do the following:

- a. Tour your community and list the different building types you see.

Try to identify buildings that can be associated with a specific period of history or style of architecture.

Building	Period of history or style of architecture

Make a sketch of the building you most admire.



Workbook © Copyright 2017 - U.S. Scouting Service Project, Inc. - All Rights Reserved
Requirements © Copyright, Boy Scouts of America (Used with permission.)

This workbook may be reproduced and used locally by Scouts and Scouters for purposes consistent with the programs of the Boy Scouts of America (BSA), the World Organization of the Scout Movement (WOSM) or other Scouting and Guiding Organizations. However it may NOT be used or reproduced for electronic redistribution or for commercial or other non-Scouting purposes without the express permission of the U. S. Scouting Service Project, Inc. (USSSP).

- b. Select an architectural achievement that has had a major impact on society. _____

Using resources such as the Internet (with your parent's permission), books, and magazines, find out how this achievement has influenced the world today. Tell your counselor what you learned.

- 2. In the Outdoor Code, a Scout pledges to "be conservation-minded." Discuss the following with your counselor:

- a. The term *sustainable architecture*.

Identify three features typical of green buildings.

- b. The difference between renewable building materials and recycled building materials, and how each can be used in construction.

- c. The relationship of architecture with its surrounding environment and the community.

- d. How entire buildings can be reused rather than torn down when they no longer serve their original purpose.

- 3. Do ONE of the following:

- a. With your parent'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.

Discuss why the different building materials were selected.

Look at the details in the drawings and the scale model to see how the materials and components are attached to each other during construction.

- b. With your parent'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.

While at the site, discuss why the different building materials being used were selected.

Discuss how the different building materials and components are attached to each other during construction.

Note: 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.

- c. 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.

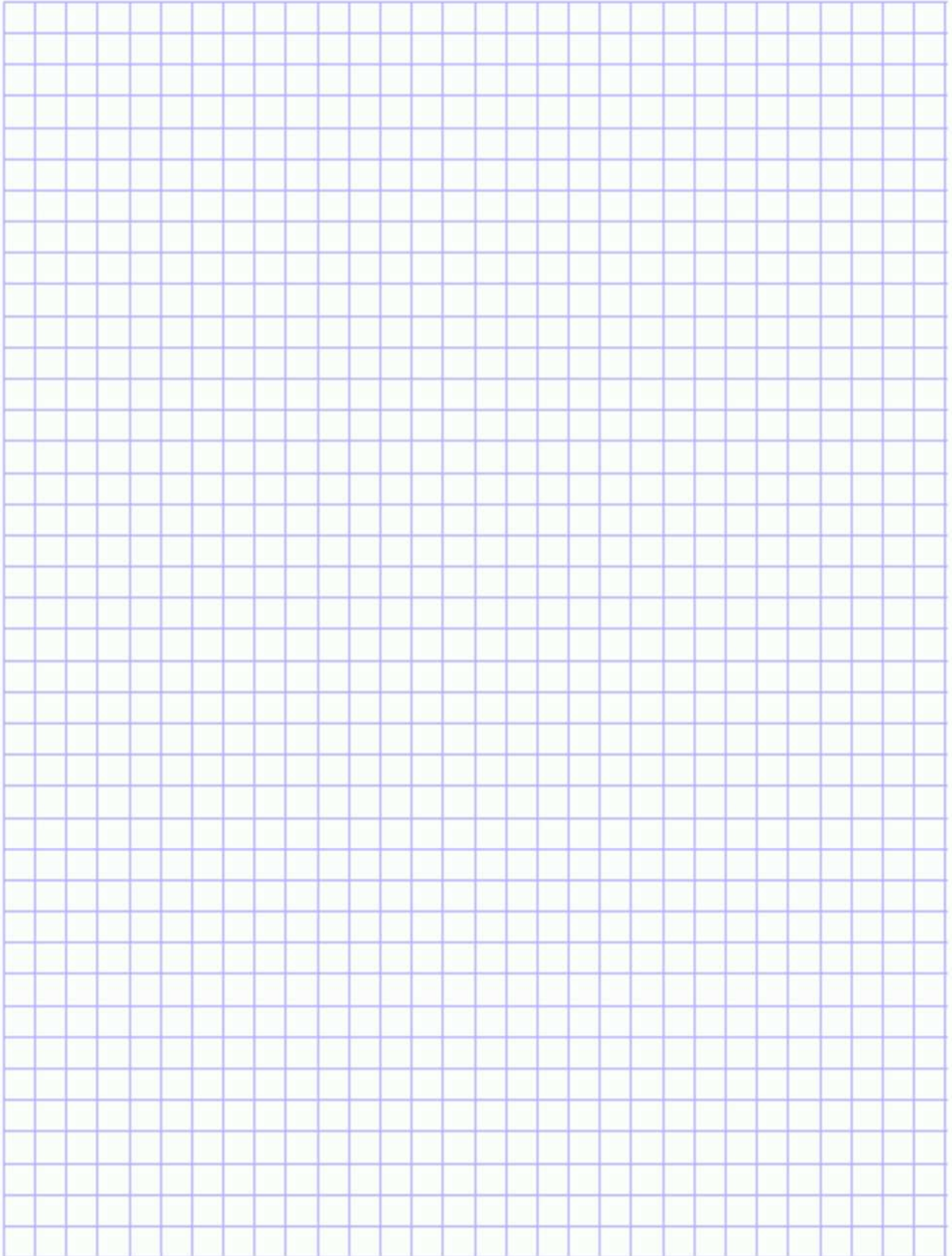
Requirements

Functions of the building and site,

How the functions relate to one another,

Goals of the project.

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)



5. Find out about three career opportunities in architecture.

1.	
2.	
3.	

Pick one and find out the education, training, and experience required for this profession. _____

Education:	
Training:	
Experience:	

Discuss this with your counselor, and explain why this profession might interest you.

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 when and 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 follow the principles of Leave No Trace for all outdoor activities.

Be conservation-minded. I will learn about and practice good conservation of soil, waters, forests, minerals, grasslands, wildlife, and energy. I will urge others to do the same.

When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from <http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf>. You can download a complete copy of the *Guide to Advancement* from <http://www.scouting.org/filestore/pdf/33088.pdf>.