



Architecture

Merit Badge Workbook

Read "the merit badge pamphlet on the subject...meet the requirements as they are stated." - [Boy Scout Requirements pp. 22-23](#)

Each "Scout must be reviewed individually by the counselor." - [Advancement Policies p. 26](#) See the [Online Resources](#).

Send comments to the workbook developer: craig@craiglincoln.com. Requirements revised: 2010, Workbook updated: 8/10.

Scout's Name: _____

Unit: _____

Counselor's Name: _____

Counselor's Ph #: _____

1. 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. _____

Make a sketch of the building you most admire.

1. 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.

c. Interview someone who might be your client (such as a prospective homeowner or business owner) if you were an architect. _____

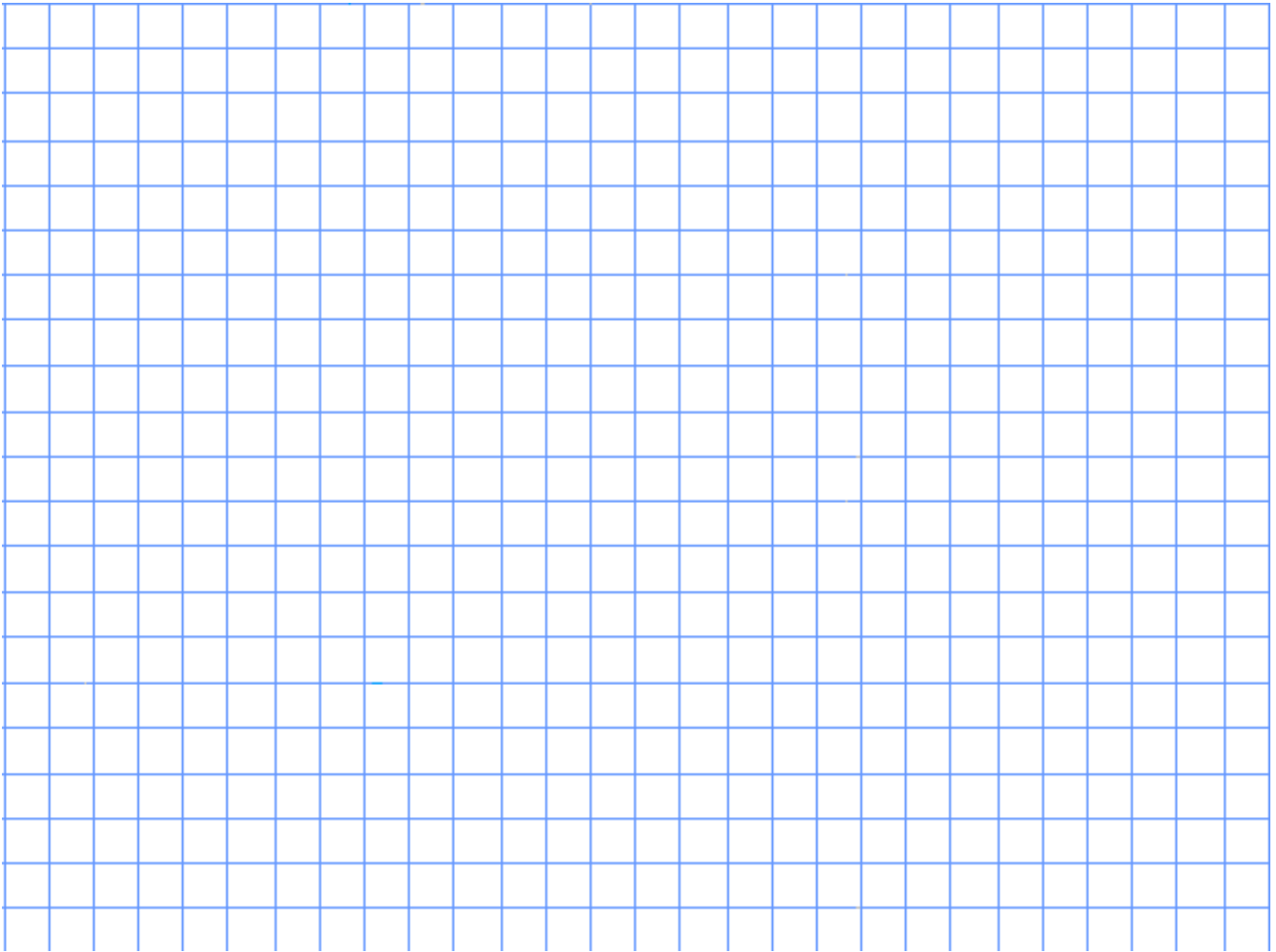
Find out what your client's requirements would be for designing a new home or business building. Write a short program including a list of requirements for the project, _____

the functions of the building and site, _____

how the functions relate to one another, _____

and the goals of the project. _____

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. _____

Pick one _____

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

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

Online Resources (Use any Internet resource with caution and only with your parent's or guardian's permission.)

Boy Scouts of America: ► scouting.org ► [Guide to Safe Scouting](#) ► [Age-Appropriate Guidelines](#) ► [Safe Swim Defense](#)

▶ [Scout](#)▶ [Tenderfoot](#)▶ [Second Class](#)▶ [First Class](#)▶ [Rank Videos](#)▶ [Safety Afloat](#)

Boy Scout Merit Badge Workbooks: usscouts.org -or- meritbadge.org Merit Badge Books: www.scoutstuff.org

Requirement Resources

1: [Architectural Styles of America](#) Arranged by theme and time period. Also see: [Wikipedia: Architecture](#)

The graph paper you need is in the [Architecture Worksheet](#).

2: [Outdoor Code](#)

3: [Find an architect in your area](#) through the American Institute of Architects' "Architect Finder"

[Building Materials](#)

4: The graph paper you need is in the [Architecture Worksheet](#).

[How to draw a Scale Floor Plan](#)

5: [Careers in Architecture](#)

General Resources

Amer. Architectural Found.: <http://www.archfoundation.org>

Amer. Institute of Architects: <http://www.aia.org>

Amer. Institute of Arch. Students: <http://www.aiasnatl.org>

Assn. of Collegiate Schools of Arch.: <http://www.acsa-arch.org>

Assn. of Licensed Architects: <http://www.licensedarchitect.org>

Nat. Council of Arch. Reg. Boards: <http://www.ncarb.org>

Nat. Org. of Minority Architects: <http://www.noma.net>

New York Society of Architects: <http://www.nysarch.com>

Soc. of Amer. Registered Architects: <http://www.sara-Nat..org>

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.