

cleworth architectural legacy

presents:

Architectural "Awareness"

Teacher's Appendix to the Activities Workbook

By Sarah Ponko, James "JR" Ronczy, and Tim Thomas



Drawings by James "JR" Ronczy

The Denver Square Home, circa 1890 - present.

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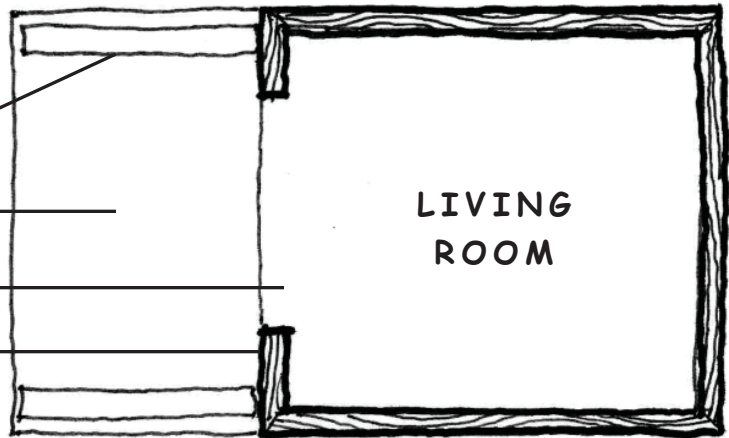
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or

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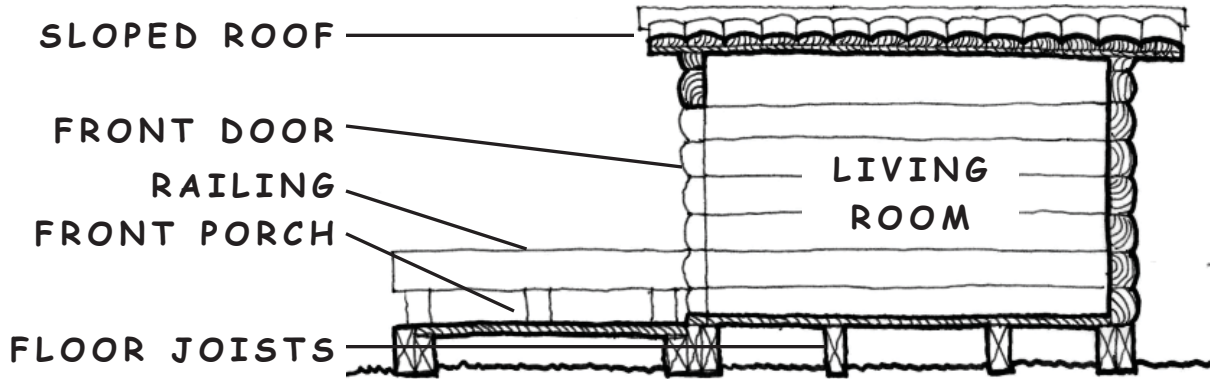
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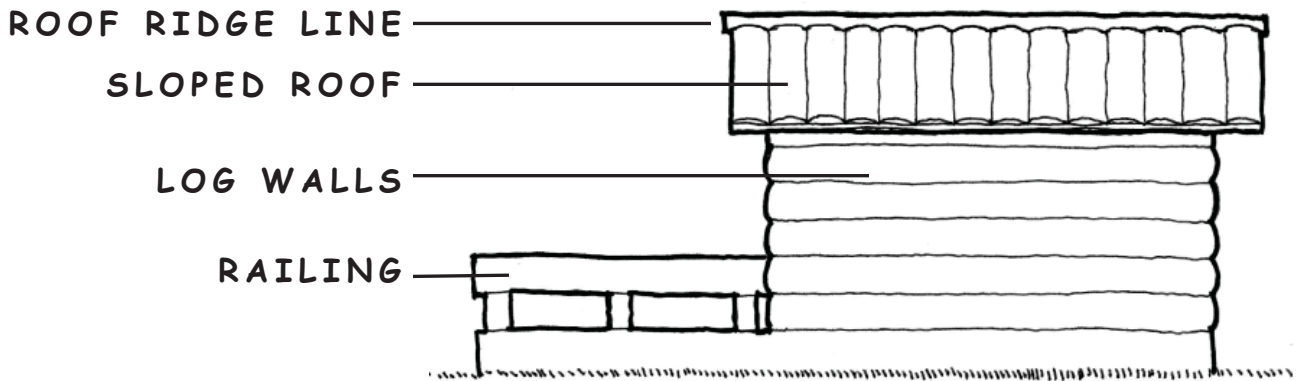
- RAILING
- FRONT PORCH
- FRONT DOOR
- LOG WALLS

PLAN



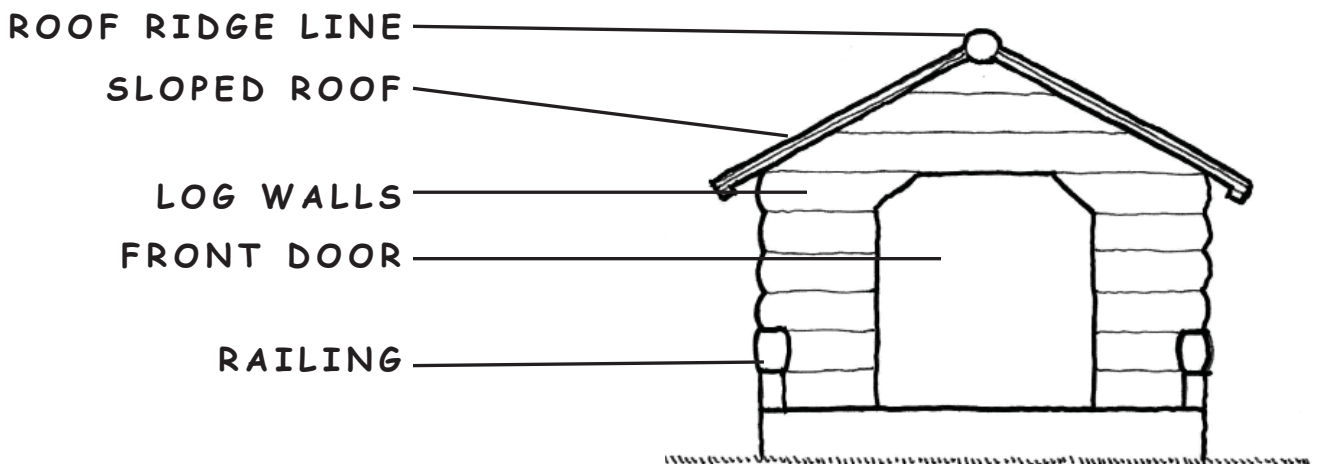
- SLOPED ROOF
- FRONT DOOR
- RAILING
- FRONT PORCH
- FLOOR JOISTS

LONGITUDINAL SECTION



- ROOF RIDGE LINE
- SLOPED ROOF
- LOG WALLS
- RAILING

SIDE ELEVATION



- ROOF RIDGE LINE
- SLOPED ROOF
- LOG WALLS
- FRONT DOOR
- RAILING

FRONT ELEVATION

Man's Best Friend Needs a House

teacher's appendix

Look at the Doghouse in the picture below. Draw the PLAN, SECTION, and ELEVATION for it in the space below. Answers will vary.

If the space provided on the workbook sheet is not adequate, have students complete this activity in their sketchbooks. Plans show the location of the building on the property, the size of the building, the location of door and windows, how the building functions, and much more.



Fido loves his new home. His best friend, Spot, would like to have an identical home for himself. Help Fido make the drawings needed for Spot to recreate this doghouse.

House Plan

A "Longitudinal" section is one that cuts through the longest axis (or "centerline") of a building. Students can draw this or they can draw a "Cross" section, which cuts through a narrower portion of the building. Both are used regularly by Architects to show the massing of a structure, the interior elevations, and materials used for construction.

"Front" and "Side" elevations are normally shown on architectural drawings. Typically there is an elevation drawn for each side of a building. These elevations show exterior materials, building height, window and door locations, as well as relationships to site features or nearby buildings.

House Section

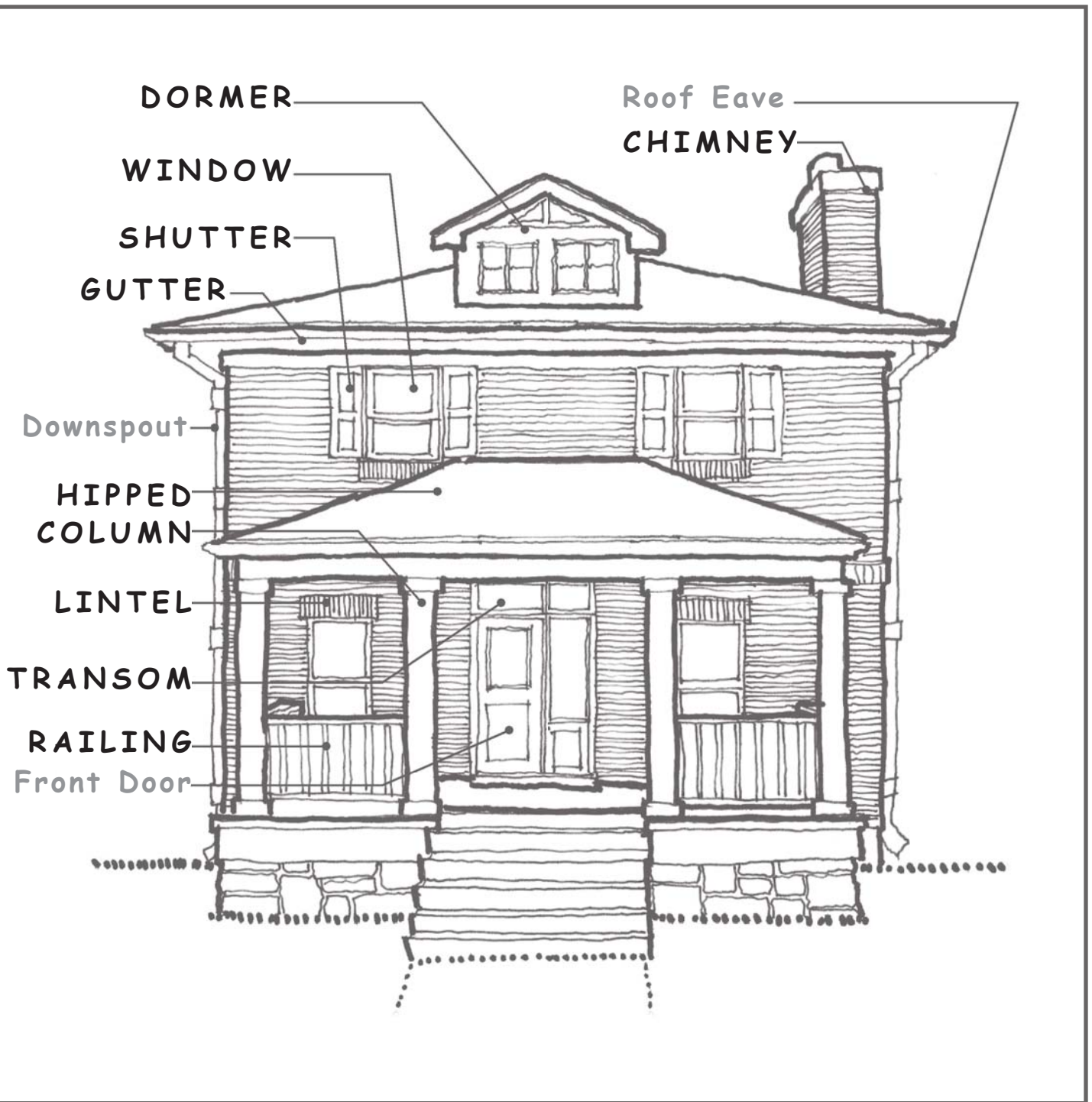
House Elevation

Just as we identified and labeled the parts of a fruit or vegetable in the previous activity, label the parts of the Fido's doghouse above. Remember to show textures and colors for each part of the house.

Imagine this: Besides a warm house, what else does a dog want in a home? Perhaps food dishes, a soft bed, and toys. Anything else?

The "Denver Square" House Elevation

Un-jumble the words below the home's elevation. Use these to label the unidentified architectural elements.



Drawings by James "JR" Renczy

M R E D R O
L M N U C O
T R S H U T E
L N T E I L
L I G N A I R

D O R M E R
C O L U M N
S H U T T E R
L I N T E L
R A I L I N G

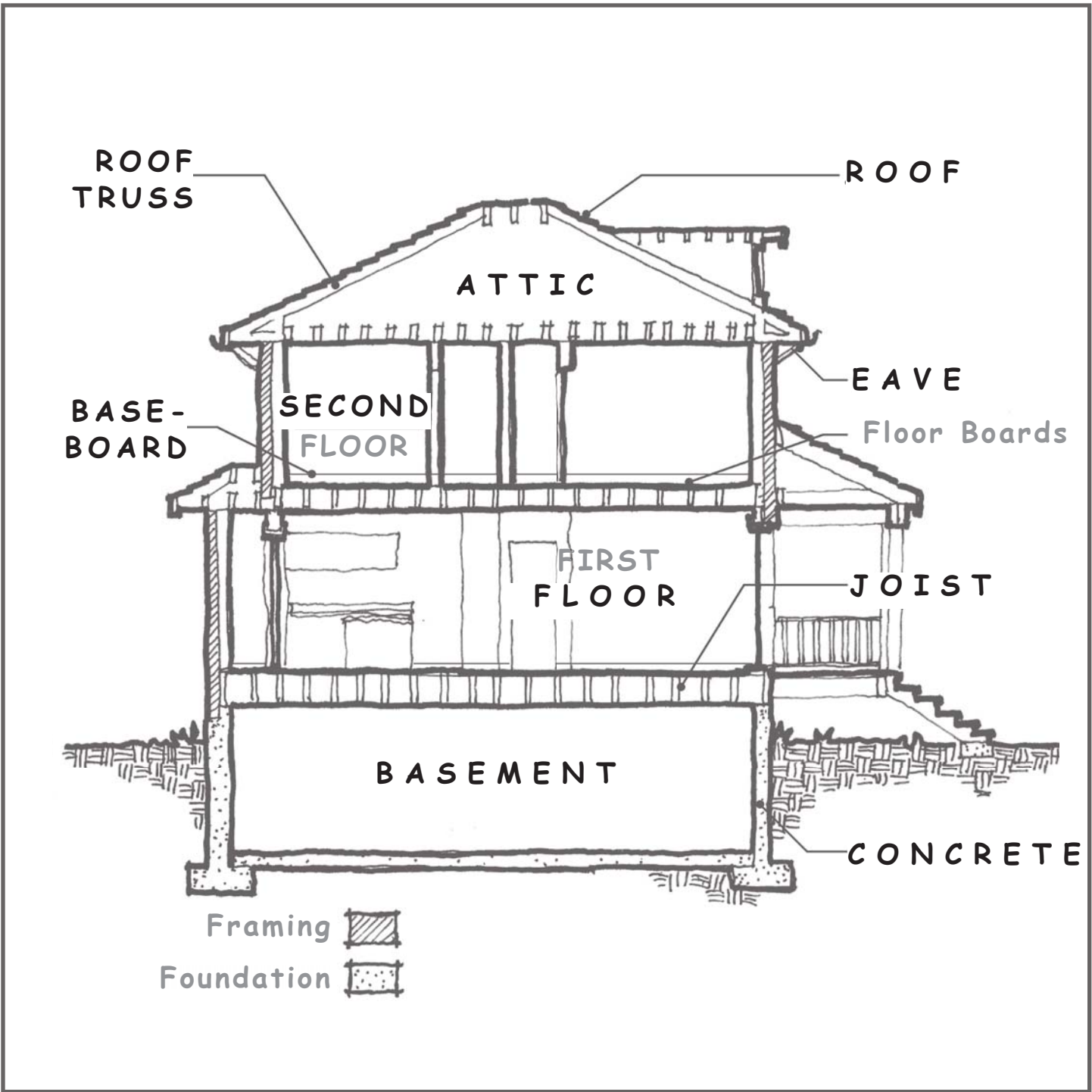
I M N H C Y E
R T T U E G
E P D I H P
O M S R T N A
W O I D W N

C H I M N E Y
G U T T E R
H I P P E D
T R A N S O M
W I N D O W

The "Denver Square" House Section

teacher's appendix

Un-jumble the words below the home's section. Use these to label the unidentified architectural elements.

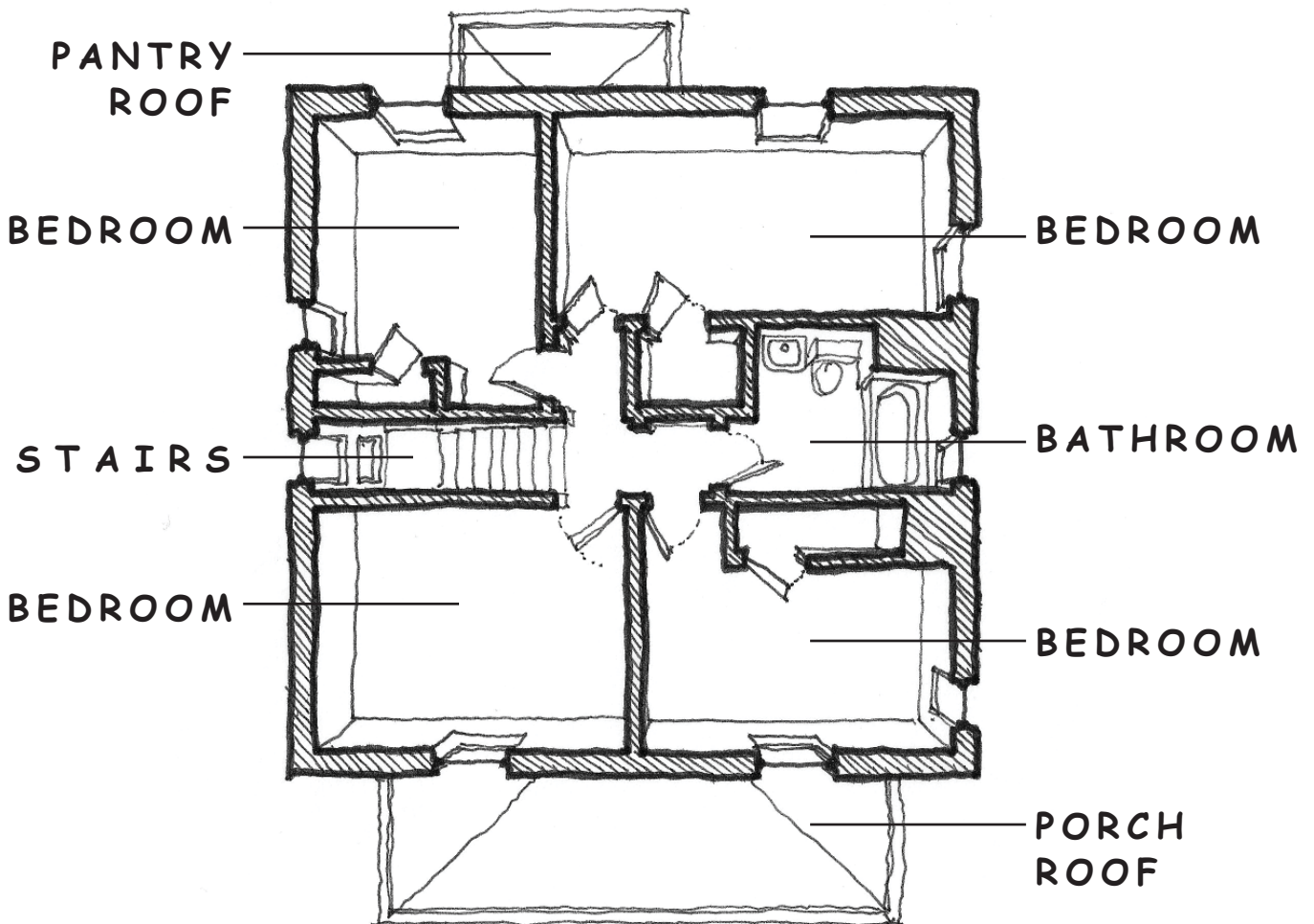


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Drawings by James "JR" Ronczy

NCCOREET	CONCRETE	RLOFO	FLOOR
SMENBTEA	BASEMENT	TCIAT	ATTIC
NSDOEC	SECOND	IOSTJ	JOIST
EBSBAADOR	BASEBOARD	EEVA	EAVE
FORO SURTS	ROOF TRUSS	OORF	ROOF

The "Denver Square" House 2nd Floor Plan



Drawings by James "JR" Ronczy

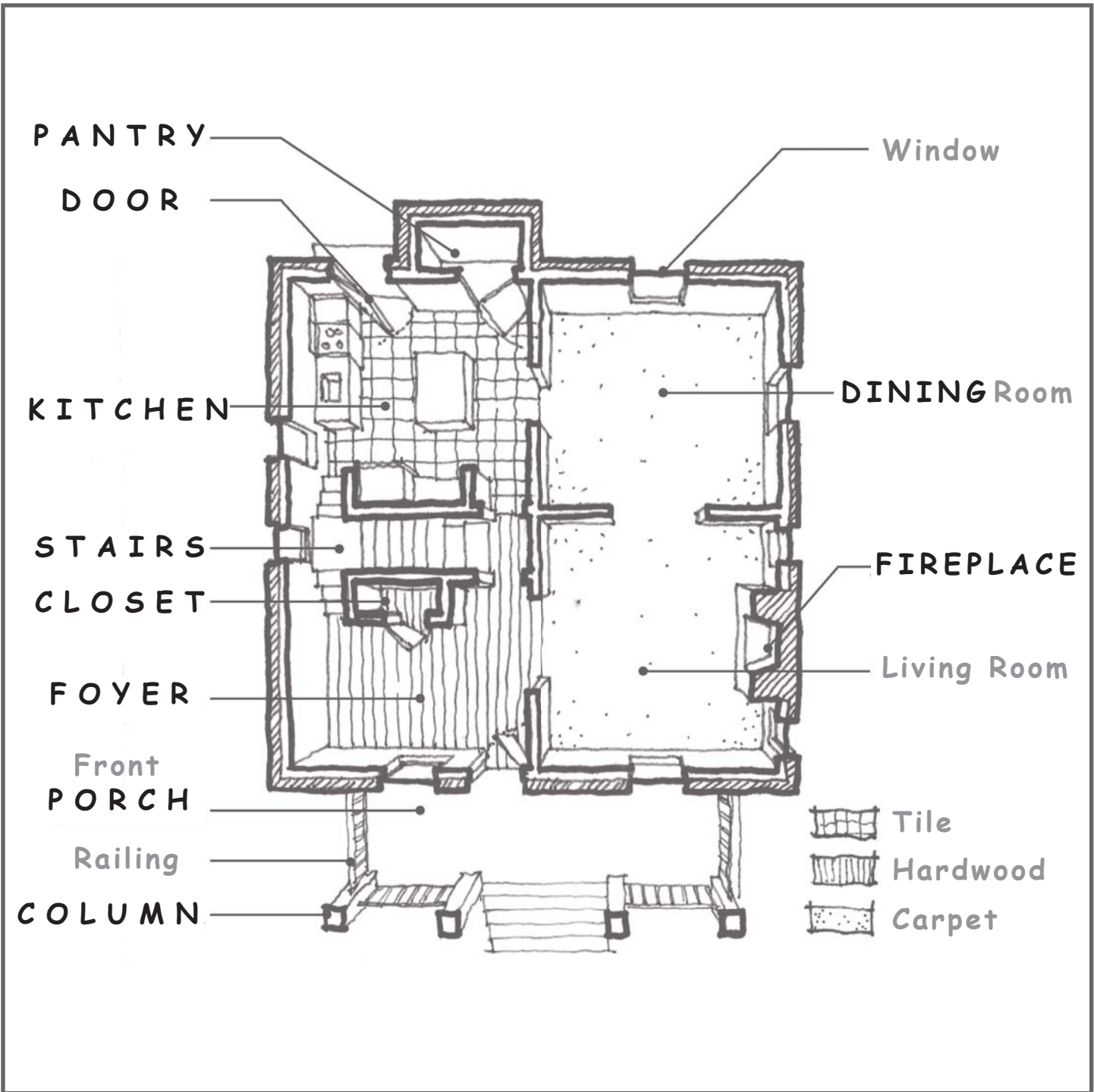
The 2nd floor plans completed by the students may vary significantly from one to the next, as students will utilize different combinations of bedrooms, bathrooms, and dens. The plan above shows 4 small bedrooms and 1 small bathroom. There may be plans with no bathroom for a house built before indoor plumbing. A student may show three bedrooms and a large corner bathroom. A room without a closet can be considered a Den or Study. Varying designs are correct and feasible.

It is important to align the stairs and some walls between the 1st and 2nd floors. Walls which are aligned between floors can be assumed to be structural walls, running from the basement level to the roof to support the structure. Showing the porch roof, and one for the pantry helps viewers understand the plan. Encourage students to add furniture and floor materials to their floor plans. It is even possible to add a 2nd floor balcony.

The "Denver Square" House Plan

teacher's appendix

Un-jumble the words below the home's plan. Use these to label the unidentified architectural elements.



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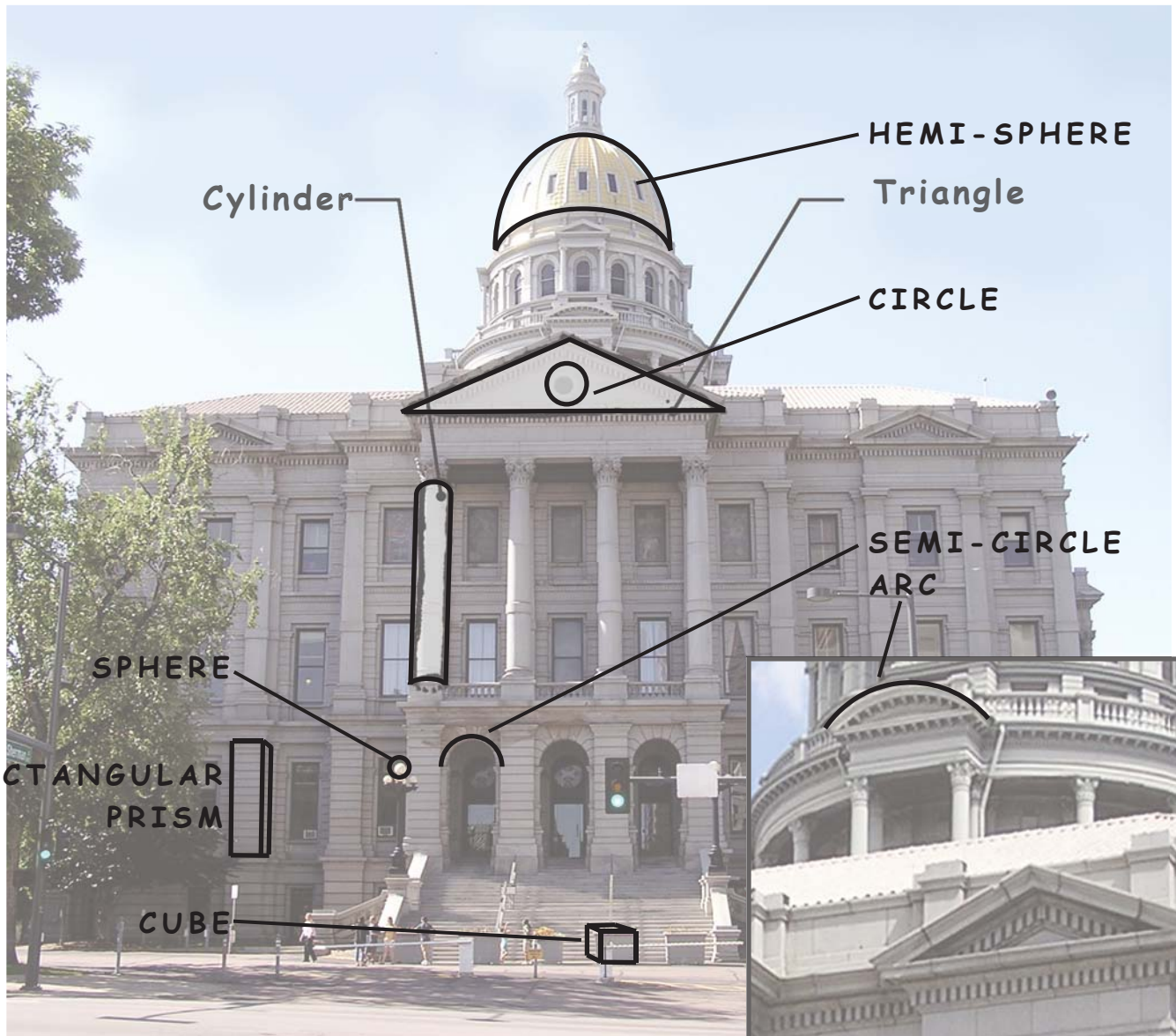
Drawings by James "JR" Ronczy

E C T H I K N
S T E C O L
I N D I G N
R I E F C E A L P
O L U C N M

K I T C H E N Y F O R E
C L O S E T R C H O P
D I N I N G R T I A S S
F I R E P L A C E A Y R T N P
C O L U M N O D R O

F O Y E R
P O R C H
S T A I R S
P A N T R Y
D O O R

Locate and trace over an example of each shape listed that can be seen in the images below. Answers will vary.



Photos by James "JR" Ronczy



Find these Two-Dimensional Geometries:

- Circle
- Rectangle
- Triangle
- Semi - Circle
- Arc

Find these Three-Dimensional Geometries:

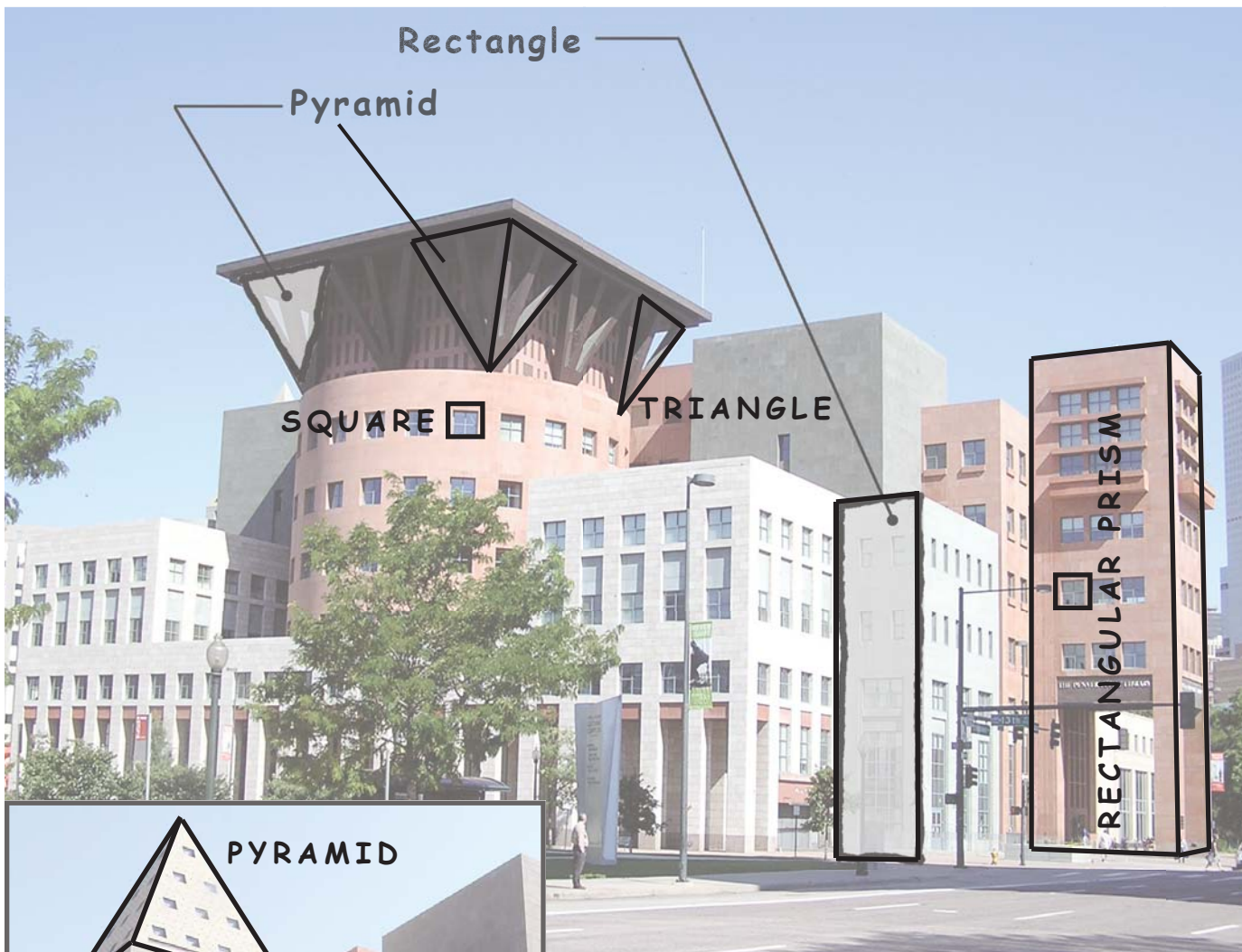
- Sphere
- Cylinder
- Cube
- Hemi - Sphere
- Rectangular Prism

Teachers, there are other responses that may also be correct, so review alternatives for accuracy.

The Denver Public Library

teacher's
appendix

Locate and trace over an example of each shape listed that can be seen in the images below. Answers will vary.



Photos by James "JR" Ronczy



Find these Two-Dimensional Geometries:

Triangle **Rectangle**
Square

Find these Three-Dimensional Geometries:

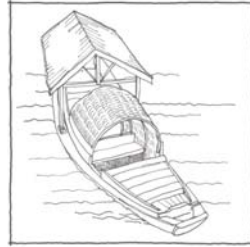
Cylinder **Pyramid**
Rectangular Prism
Cube

Have the students find as many of each geometry as they can. Here are just a few.

Teachers, there are other responses that may also be correct, so review alternatives for accuracy.

Drawings by James "JR" Ronczy

Place the proper letter and number in the spaces provided that match the indigenous architecture of the noted continents with the architectural and cultural descriptions below.



Asia

Oceania/
Australia

Asia

Africa

North
America

E 3

A 5

C 1

D 4

B 2

1. Sampans

These flat bottomed wood boats served as the home, work place, and a mode of transportation for inland and coastal fishing people

2. Cliff Dwellings

These sandstone houses were plastered with adobe and built into shallow caves and alcoves of canyon walls by Southwestern Native American farmer tribes

3. Yurt

These portable, wool felt-covered, round dwellings were used by nomadic peoples in the Steppes region

4. Stone & Mud Huts

These round, grass-roofed houses are common to the farmer-herder peoples living in the southern hemisphere grassland regions

5. Tree Houses

Using the wood from the dense surrounding forest, these raised shelters elevate the clans of hunter-gatherers high above the ground, away from insects, and predators of the Papua in the Pacific Ocean regions

A. Korowai & Kombai

These "tree dwellers" live in the tropical forests in the southwestern portion of New Guinea

B. Anasazi

Agrarian ancestors to the Pueblo Indians living in or near the New Mexico region, USA

C. Han

A Chinese population that includes many who depend upon fishing as their main food source and livelihood. These people live entirely on the water

D. Swazi

One of many pastoral farming tribes located in a landlocked region surrounded by South Africa and Mozambique

E. Mongols

Tribe of migrant herdsman living on the grassy plains of Mongolia and bordering regions of China and Russia