

**CAREER  
PATHS**

# Architecture

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Express Publishing

**CAREER  
PATHS**

# Architecture

Book

1

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## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Types of Structures	Advertisement	airport, building, high-rise, hospital, office building, parking structure, residence, school, skyscraper, structure, warehouse	Accepting a compliment
2	Parts of a Building 1	Flyer	attic, basement, bathroom, bedroom, closet, door, garage, kitchen, laundry room, living room	Describing a change
3	Parts of a Building 2	Memo	conference room, elevator, entrance, fire escape, floor, hallway, lobby, office, stairwell, vestibule, window	Confirming information
4	Shapes 1	Webpage	arch, circle, corner, diamond, oval, polygon, rectangle, side, square, triangle	Asking for an opinion
5	Shapes 2	Textbook chapter	3D, cone, cube, cuboid, cylinder, dome, face, pyramid, sphere, surface	Giving an example
6	Describing Shapes and Structures	Journal article	angular, asymmetrical, bend, climb, curvy, flat, round, sharp, straight, symmetrical	Asking for more information
7	Describing Landscapes	Email	grade, hilly, landscape, level, open, rise, slope, steep, terrain, topography, vegetation	Describing degree
8	Basic Math	Letter	average, come to, divide by, equal, hundred, less, minus, multiply by, plus, times	Expressing confusion
9	Measurements 1	Textbook chapter	acre, cubic foot, cubic inch, foot, imperial, inch, ounce, pound, ton, yard	Asking about intention
10	Measurements 2	Textbook chapter	centimeter, cubic centimeter, cubic meter, gram, hectare, kilogram, liter, meter, metric, tonne	Asking for help
11	Materials 1	Webpage	aggregate, brick, cement, concrete, I-beam, iron, metal, mortar, rebar, sand, steel, stone	Answering the phone at work
12	Materials 2	Email	drywall, fiberglass, glass, marble, plaster, plastic, porcelain, rubber, tile, timber	Making a selection
13	Describing Materials	Journal article	brittle, durable, elastic, flexible, hardness, heavy, lightweight, opaque, rigid, transparent	Asking for an opinion
14	Education 1	Webpage	angle, calculus, geometry, heat flow, line, physics, point, prerequisite, segment, trigonometry	Asking about purpose
15	Education 2	Webpage	accredited, bachelor's degree, continuing education, emphasis, examination, internship, licensed, maintain, major in, master's degree	Talking about opportunities

# Table of Contents

<b>Unit 1 – Types of Structures</b> .....	4
<b>Unit 2 – Parts of a Building 1</b> .....	6
<b>Unit 3 – Parts of a Building 2</b> .....	8
<b>Unit 4 – Shapes 1</b> .....	10
<b>Unit 5 – Shapes 2</b> .....	12
<b>Unit 6 – Describing Shapes and Structures</b> .....	14
<b>Unit 7 – Describing Landscapes</b> .....	16
<b>Unit 8 – Basic Math</b> .....	18
<b>Unit 9 – Measurements 1</b> .....	20
<b>Unit 10 – Measurements 2</b> .....	22
<b>Unit 11 – Materials 1</b> .....	24
<b>Unit 12 – Materials 2</b> .....	26
<b>Unit 13 – Describing Materials</b> .....	28
<b>Unit 14 – Education 1</b> .....	30
<b>Unit 15 – Education 2</b> .....	32
<b>Glossary</b> .....	34

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**2**

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## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Qualities of an Architect	Job listing	artistic, attention to detail, computer savvy, creative, dedicated, enthusiastic, hardworking, logical, organized, outside the box, patient, persistent	Giving examples
2	People in Architecture	Article	acoustic engineer, architect, building surveyor, client, consultant, contractor, electrical engineer, firm, geotechnical surveyor, land surveyor, landscape architect, mechanical engineer, self-employed, structural engineer	Estimating time
3	Scale	Textbook chapter	design, express, fraction, full-size scale, hundredth, one-to- (1:), percent, proportion, ratio, scale system, space, to scale	Admitting confusion
4	Sketches	Webpage	abstract, analytical sketch, component, conceptual sketch, draw, in detail, observational sketch, pen, pencil, preliminary, rough, sketch	Offering constructive criticism
5	Perspective	Guide	constructed perspective, converge, horizon, horizontal plane, line of view, perspective, sketch perspective, two-point perspective, vanishing point, vertical plane, viewpoint	Identifying differences
6	Orientation	Email	face, heat gain, natural light, orientation, placement, position, prevailing wind, rise, set, shadow, site, solar heat gain	Asking for clarification
7	Concept	Advertisement	brief, concept, develop, discuss, factor, function, goal, idea, impression, interview, purpose, specification, take into consideration, vision	Asking for more detail
8	Site Survey and Analysis	Email	access, adjacent, climate, existing, figure ground study, historical tracing, locality, mapping, measure, serial vision, site analysis, site survey, temperature	Expressing a concern
9	Design Factors	Memo	apply, building occupancy classification, building permit, code, easement, floor-area-ratio, frontage, impervious surface, law, ordinance, regulation, septic analysis, setback, zoning	Giving good news
10	Design Elements	Pamphlet	design, drainage, exterior, form, heating, interior, landscaping, layout, lighting, materiality, route, ventilation	Introducing oneself on the phone
11	Detail Development	Letter	appliance, budget, cabinet, cost estimate, detail development, determine, finalize, floor plan, furnishing, HVAC system, insulation, modeling, plumbing fixture	Asking for advice
12	Elements of Construction	Textbook chapter	construction, curtain wall, foundation, framework, framework construction, load-bearing wall, opening, pile-driven foundation, roof, slab-on-grade, solid construction, structure, support	Providing reassurance
13	Construction Process	Blog	bid, break ground, construction documents, contract, excavation, finishing, framing, grade, inspection, installation, phase, plumbing, walk-through, wiring	Stating a preference
14	Prefabrication	Article	assemble, element, housing unit, limit, mass produced, off-site, on-site, option, prefabricated, preformed, quality control, transport, uniform	Listing pros and cons
15	Finished Building	Build sheet	cladding, cornice, door schedule, drop ceiling, finish, frame, interior finishing, partition, remarks, siding, trim, window schedule	Confirming information

# Table of Contents

<b>Unit 1 – Qualities of an Architect</b> .....	4
<b>Unit 2 – People in Architecture</b> .....	6
<b>Unit 3 – Scale</b> .....	8
<b>Unit 4 – Sketches</b> .....	10
<b>Unit 5 – Perspective</b> .....	12
<b>Unit 6 – Orientation</b> .....	14
<b>Unit 7 – Concept</b> .....	16
<b>Unit 8 – Site Survey and Analysis</b> .....	18
<b>Unit 9 – Design Factors</b> .....	20
<b>Unit 10 – Design Elements</b> .....	22
<b>Unit 11 – Detail Development</b> .....	24
<b>Unit 12 – Elements of Construction</b> .....	26
<b>Unit 13 – Construction Process</b> .....	28
<b>Unit 14 – Prefabrication</b> .....	30
<b>Unit 15 – Finished Building</b> .....	32
<b>Glossary</b> .....	34

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**3**

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## Scope and Sequence

Unit	Topic	Reading context	Vocabulary	Function
1	Design Tools and Materials	Webpage	45/90 triangle, balsa wood, basswood, bow compass, bumwad, drafting board, drafting vellum, mechanical pencil, parallel bar, protractor, stencil, T square, tracing paper, triangular scales	Discussing necessity
2	Models	Webpage	CAD modeling, concept model, detail model, finished model, manipulate, model, physical model, representation, revise, rough model, surrounding, urban model	Making a suggestion
3	Drawings 1	Cover letter	axonometric drawing, bird's-eye view, elevation drawing, façade, full set, horizontal cross section, isometric drawing, oblique drawing, orthographic projection, overhead, plan, section drawing, vertical cross-section	Narrowing options
4	Drawings 2	Magazine article	accuracy, CAD drawing, convention, deconstruct, detail drawing, drafting, exploded view, hand sketch, manual drawing, mechanical drafting, obsolete, photomontage, reassemble, schematic	Stating preferences
5	Blueline Prints 1	Guide	action line, break line, center line, dashed, dimension line, leader line, lettering, line type, line weight, phantom line, primary object, secondary object, section line, solid	Advising
6	Blueline Prints 2	Email	cross-reference symbol, cutting-plane line, detail symbol, door number symbol, elevation datum, elevation mark, graphic symbol, material symbol, section symbol, title block, window letter symbol	Making an apology
7	Presentations: Storyboarding	Blog	backdrop, caption, communicate, narrative, over time, pitch, potential, presentation, scene, series, storyboarding, suggest, technique, unfold	Listing benefits
8	Presentations: Portfolios	Webpage	A1, A3, collection, double-page spread, electronic portfolio, golden section, ISO, landscape, on screen, portfolio, portrait, projector, resolution, work	Wishing someone well
9	Historical Architecture	Magazine article	buttress, classical architecture, column, diameter, Egyptian pyramids, five orders, Gothic, height, lintel, Renaissance, ribbed vault, spacing	Giving an opinion
10	Modernism	Textbook chapter	Bauhaus, Brutalism, decoration, efficient, form follows function, functionalism, industrial, International Style, machine, Modernism, monolithic, open plan, sheet glass, stark, transparency, truth to materials	Asking for more detail
11	Postmodernism	Brochure	bland, characterize, countermovement, double coding, dual purpose, icon, monumentalism, ornament, Postmodernism, primary, reactionary, symbolic	Correcting a misconception
12	Contemporary Architecture 1	Textbook chapter	aesthetic, contemporary, Deconstructivism, distort, dynamic, exaggerated, Expressionist Architecture, fluid, illusion, influence, innovative, Novelty Architecture, Sculpturism, unexpected	Politely disagreeing
13	Contemporary Architecture 2	Journal article	Blobitecture, bulge, Critical Regionalism, draw, High-Tech, inspiration, integrate, local, Neoclassical, Neomodern, Organic Architecture, resurgence, simplicity, Structural Expressionism	Listing options
14	Sustainability 1	Journal article	adobe, cob, cordwood construction, earthbag, ecological footprint, environmental impact, green construction, natural building, rammed earth, reclaimed lumber, recycled material, reduce, straw bale, sustainable, timber frame	Expressing doubts
15	Sustainability 2	Brochure	bottle wall, convection, earth-bermed, energy efficient, gray water, heat flow, heat sink, off the grid, passive solar design, photovoltaic panel, rainwater harvesting system, repurpose, scrap tire, skylight, thermal mass	Discussing benefits

# Table of Contents

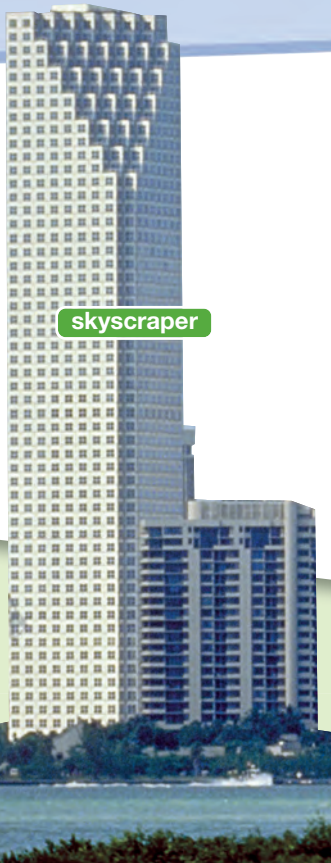
<b>Unit 1 – Design Tools and Materials</b> .....	4
<b>Unit 2 – Models</b> .....	6
<b>Unit 3 – Drawings 1</b> .....	8
<b>Unit 4 – Drawings 2</b> .....	10
<b>Unit 5 – Blueline Prints 1</b> .....	12
<b>Unit 6 – Blueline Prints 2</b> .....	14
<b>Unit 7 – Presentations: Storyboarding</b> .....	16
<b>Unit 8 – Presentations: Portfolios</b> .....	18
<b>Unit 9 – Historical Architecture</b> .....	20
<b>Unit 10 – Modernism</b> .....	22
<b>Unit 11 – Postmodernism</b> .....	24
<b>Unit 12 – Contemporary Architecture 1</b> .....	26
<b>Unit 13 – Contemporary Architecture 2</b> .....	28
<b>Unit 14 – Sustainability 1</b> .....	30
<b>Unit 15 – Sustainability 2</b> .....	32
<b>Glossary</b> .....	34

# 1 Types of Structures

## Get ready!

1 Before you read the passage, talk about these questions.

- 1 What are some different buildings that people live in?
- 2 What are some different buildings that people work in?



## Reading

2 Read the advertisement. Then, mark the following statements as true (T) or false (F).

- 1 \_\_\_ The advertisement offers teaching positions to experienced architects.
- 2 \_\_\_ Darren Fischer has experience designing large buildings.
- 3 \_\_\_ Andrea Palomino primarily works on residences.

# BV

BELLA VALLEY  
SCHOOL OF ARCHITECTURE

# SA



Start your career with a degree from BVSA! Learn how to design a variety of **structures**. Do you want to design family **residences**? How about sleek, professional **office buildings**? Then BVSA is for you.

Many local **buildings** are works of BVSA graduates:

### Darren Fischer

Darren designed several **high-rises** and **skyscrapers** downtown. His current project is a **warehouse** for Samson Furniture Dealers.

### Andrea Palomino

Andrea mostly works on projects for the city. She is responsible for the new **school** and **hospital** in town. She also designed a **parking structure** for city vehicles. Now, the city wants her to design the new **airport**.



## Vocabulary

### 3 Match the words (1-5) with the definitions (A-E).

- 1 \_\_\_ school      3 \_\_\_ high-rise      5 \_\_\_ office building  
2 \_\_\_ building      4 \_\_\_ warehouse

- A any structure with walls and a roof  
B a structure with a large, open space inside  
C a structure with many stories  
D a structure where people work  
E a structure where people go to learn

### 4 Fill in the blanks with the correct words: *parking structure, airport, structure, residence, hospital, skyscraper*.

- 1 The tallest building in a big city is usually a(n) \_\_\_\_\_ .  
2 The workers keep their cars in a(n) \_\_\_\_\_ during the day.  
3 When people are sick, they go to a(n) \_\_\_\_\_ .  
4 A single-family house is an example of a(n) \_\_\_\_\_ .  
5 The city put up a small \_\_\_\_\_ at the bus stop to protect people from the rain.  
6 People travel in and out of the \_\_\_\_\_ on planes.

### 5 Listen and read the advertisement again. What is the man working on now?

## Listening

### 6 Listen to a conversation between a student and an instructor. Check (✓) the projects that the woman has worked on.

- 1  hospital      3  skyscraper      5  office building  
2  warehouse      4  airport

### 7 Listen again and complete the conversation.

- Student:** Ms. Palomino, you work as an 1 \_\_\_\_\_, right?  
**Instructor:** I used to. Before I started teaching.  
**Student:** Did you design any 2 \_\_\_\_\_?  
**Instructor:** Yes, I did. I designed the Saint William 3 \_\_\_\_\_.  
**Student:** Really? That's one of the most 4 \_\_\_\_\_ in town!  
**Instructor:** Well, thank you. You're 5 \_\_\_\_\_.  
**Student:** Do you still design buildings?  
**Instructor:** The city consulted me 6 \_\_\_\_\_ last year, but now, I mostly teach.

## Speaking

### 8 With a partner, act out the roles below based on Task 7. Then, switch roles.

#### USE LANGUAGE SUCH AS:

*You work as ... right?  
I designed the ...  
That's one of the most ...*

- Student A:** You are a student. Talk to Student B about:
- his or her experience as an architect
  - a project he or she worked on
  - what he or she is doing now

**Student B:** You are an instructor. Talk to Student A about your experience as an architect.

## Writing

### 9 Use the conversation from Task 8 to complete the faculty profile page.



Bella Valley School of Architecture

## About the Faculty

Instructor: \_\_\_\_\_

Local Designs: \_\_\_\_\_

Current Projects: \_\_\_\_\_

HOME

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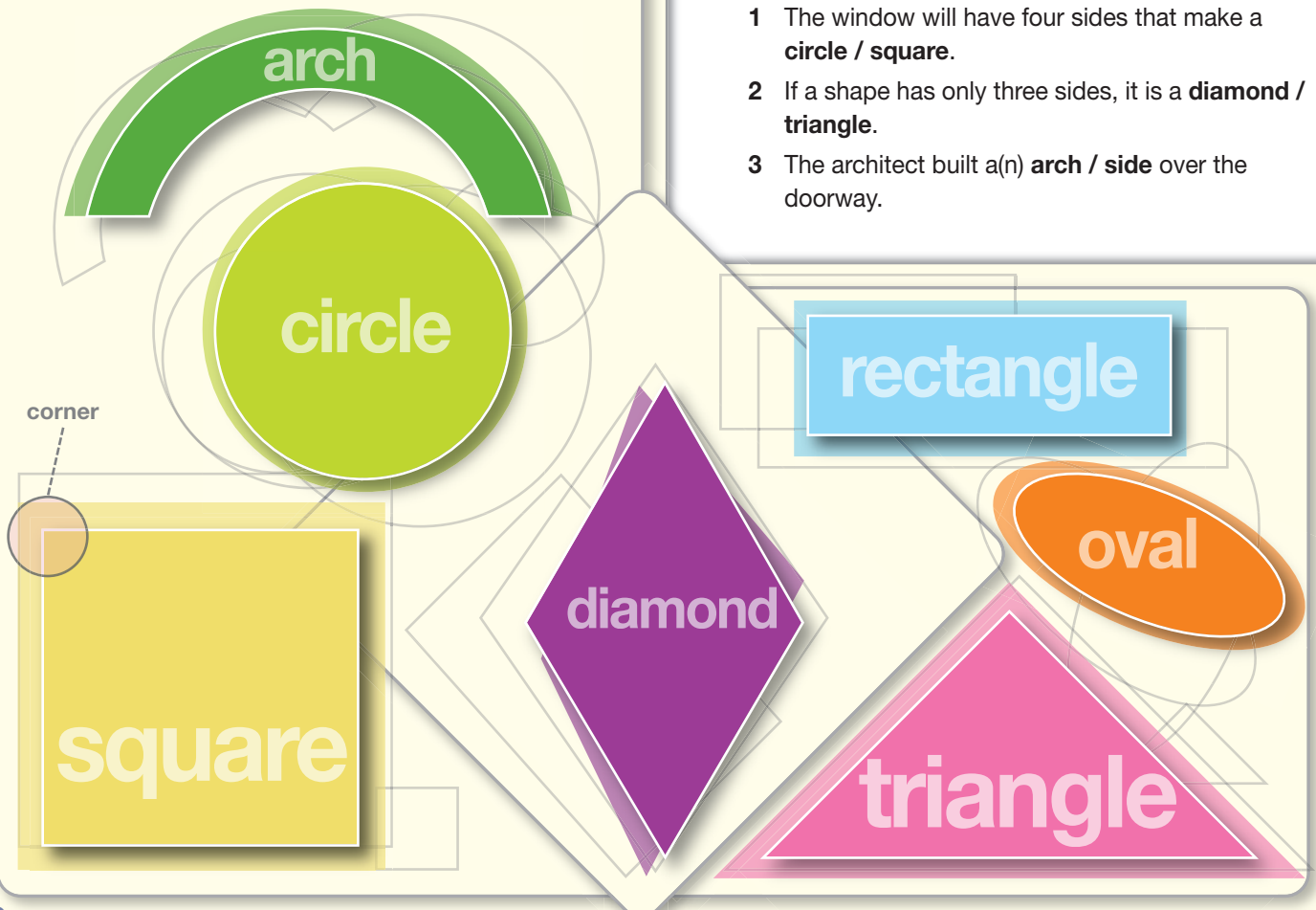
# Living Portals

## Specialty and Custom Window Designers

Every house needs windows, so why not get creative? Make your windows special with custom designs from Living Portals!

Most window designs are shaped like **squares** or **rectangles**. Do you prefer something more interesting? We'll tilt it to the side to make a **diamond**, or we'll curve it into an elegant **arch**. Do you want something really bold? Let us know at least a week in advance and we can create a custom **polygon** – like a **triangle** – to fit your design needs.

And who says that windows must have straight **sides**? Check out our selection of **circles** and **ovals**. These smooth, round designs are beautiful and practical. You'll have no more difficult **corners** to clean and the prices are the same as for our square windows!



### Get ready!

1 Before you read the passage, talk about these questions.

- 1 What are some different shapes with curved edges?
- 2 What architectural shapes are most commonly found in your country?

### Reading

2 Read the webpage. Then, mark the following statements as true (T) or false (F).

- 1 \_\_\_ Custom shapes like polygons take longer to create than other windows.
- 2 \_\_\_ Circles are more expensive than other window shapes.
- 3 \_\_\_ Triangle-shaped windows are easier to clean than circle-shaped windows.

### Vocabulary

3 Read the sentences and choose the correct words.

- 1 The window will have four sides that make a **circle / square**.
- 2 If a shape has only three sides, it is a **diamond / triangle**.
- 3 The architect built a(n) **arch / side** over the doorway.

4 Place the words from the word bank under the correct headings.

**Word BANK**

side oval corner polygon  
diamond rectangle circle

Parts of a shape	Shapes with curved edges	Shapes with straight edges
_____	_____	_____
_____	_____	_____
_____	_____	_____

5 Listen and read the webpage again. How long does it take to make a custom window?

**Listening**

6 Listen to a conversation between a salesperson and a customer. Choose the correct answers.

- What is the conversation mainly about?  
 A a problem with the woman's new windows  
 B the cost of installing custom windows  
 C the man's experience in window design  
 D which windows the woman likes best
- What shape will most of the kitchen windows be?  
 A rectangles                      C arches  
 B circles                            D ovals

7 Listen again and complete the conversation.

**Salesperson:** Good to see you again, Ms. Lewis. How did you like the 1 \_\_\_\_\_ ?

**Customer:** Your company makes such unusual windows.

**Salesperson:** Yes, we do. Are you interested in any 2 \_\_\_\_\_ ?

**Customer:** My house already has too many corners. I don't want any more 3 \_\_\_\_\_ .

**Salesperson:** Sure. What 4 \_\_\_\_\_ of circles?

**Customer:** That's pretty bold for the whole kitchen. Maybe just some 5 \_\_\_\_\_ .

**Salesperson:** We can certainly do that. Do you want the same design for all the kitchen windows?

**Customer:** Mostly. But 6 \_\_\_\_\_ might look nice over the sink.

**Speaking**

8 With a partner, act out the roles below based on Task 7. Then, switch roles.

**USE LANGUAGE SUCH AS:**

Are you interested in ...?  
 I don't want ...  
 What do you think of ...?

**Student A:** You are a salesperson. Talk to Student B about:

- windows for his or her house
- which shapes he or she likes

**Student B:** You are a customer. Talk to Student A about windows for your house.

**Writing**

9 Use the conversation from Task 8 to complete the work order.

Living Portals

**Order for Services**

Customer: \_\_\_\_\_

Part of house: \_\_\_\_\_

Describe shapes and locations of windows:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Glossary

- representation** [N-COUNT-U2] A **representation** is a picture or model that reproduces something on a smaller scale.
- repurpose** [V-T-U15] To **repurpose** something is to use it again after it is no longer needed for its original purpose, usually for a different purpose.
- resolution** [N-UNCOUNT-U8] **Resolution** is the capability of a screen or image to show sharp details.
- resurgence** [N-COUNT-U13] A **resurgence** is a reappearance or renewed popularity of something from the past.
- revise** [V-T-U2] To **revise** something is to change it in order to make it better.
- ribbed vault** [N-COUNT-U9] A **ribbed vault** is a type of arched ceiling support structure that was popular during the Gothic period.
- rough model** [N-COUNT-U2] A **rough model** is a model that is constructed early in the design phase. It shows the basic components and designs of a building.
- scene** [N-COUNT-U7] A **scene** is an image of people and events that is used to tell a story or make an impression.
- schematic** [ADJ-U4] Something is **schematic** when it shows the main parts of something, but does not show great detail.
- scrap tire** [N-COUNT-U15] A **scrap tire** is a piece of rubber that was once used to cover the wheels on a vehicle.
- Sculpturism** [N-UNCOUNT-U12] **Sculpturism** is the architectural technique of creating buildings that resemble or use works of art.
- secondary object** [N-COUNT-U5] A **secondary object** is a detail added to a drawing, such as countertops and cupboards in a house, that does not affect the integrity of the building.
- section drawing** [N-COUNT-U3] A **section drawing** is an orthographic projection that shows a vertical cross section of a building.
- section line** [N-COUNT-U5] A **section line** is a line on a blueline print with long and short dashes that is used to show a cutaway view of a floor plan.
- section symbol** [N-COUNT-U6] A **section symbol** is a symbol that indicates where to find a section drawing that corresponds to a particular part of a blueline print.
- series** [N-COUNT-U7] A **series** is a grouping of things that share the same topic.
- sheet glass** [N-UNCOUNT-U10] **Sheet glass** is a large piece of flat glass, commonly used for windows or to make walls.
- simplicity** [N-UNCOUNT-U13] **Simplicity** is the quality of being plain.
- skylight** [N-COUNT-U15] A **skylight** is a window that is built into a roof so that it allows a lot of light to enter all day.
- solid** [ADJ-U5] If something is **solid**, it does not have breaks or interruptions in its form.
- spacing** [N-UNCOUNT-U9] **Spacing** is the measurement of distance between parts of something.
- stark** [ADJ-U10] If something is **stark**, it is bare, minimal, and lacks decoration.
- stencil** [N-COUNT-U1] A **stencil** is a piece of paper, plastic, or metal with shapes cut into it so that a person can draw them easily.
- storyboarding** [N-UNCOUNT-U7] **Storyboarding** is the process of displaying ideas in a visual format that outlines how something will occur or be accomplished.
- straw bale** [N-COUNT-U14] A **straw bale** is a block of dried plant stems that is compressed and bound together, and is used as a building material.
- Structural Expressionism** [N-UNCOUNT-U13] **Structural Expressionism** is a type of architecture that focuses on the technical and functional components of buildings.
- suggest** [V-T-U7] To **suggest** something is to put forward an opinion in order to influence a decision.

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# Architecture

**Career Paths: Architecture** is a new educational resource for architectural professionals who want to improve their English communication in a work environment. Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the four key language components: reading, listening, speaking, and writing. **Career Paths: Architecture** addresses topics including shapes, materials, modeling, past influences, and modern styles.

The series is organized into three levels of difficulty and offers a minimum of 400 vocabulary terms and phrases. Every unit includes a test of reading comprehension, vocabulary, and listening skills, and leads students through written and oral production.

**Included Features:**

- A variety of realistic reading passages
- Career-specific dialogues
- 45 reading and listening comprehension checks
- Over 400 vocabulary terms and phrases
- Guided speaking and writing exercises
- Complete glossary of terms and phrases

The **Teacher's Guide** contains a full answer key and audio scripts.

The **audio CDs** contain all recorded material.



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