

ARCHITECTURE BASICS

Floor plans, elevations, room layouts, and design thinking.



WHAT IS ARCHITECTURE?

Architecture is the art and science of designing buildings and spaces for people.



THE DESIGN PROCESS

1. **EMPATHIZE** – Understand the needs.
2. **DEFINE** – Identify the problem.
3. **IDEATE** – Brainstorm ideas.
4. **DESIGN** – Create solutions.
5. **TEST & IMPROVE** – Evaluate and make it better.



THINK LIKE AN ARCHITECT!

- Who will use the space?
- What do they need?
- How will it look?
- How will it function?
- How will it connect to its surroundings?



EXAMPLE: SMALL HOUSE

1. FLOOR PLAN

A floor plan is a view from above that shows the layout of spaces.



SCALE: 1/8" = 1'-0"

2. ELEVATIONS

Elevations are flat drawings that show the outside faces of a building. They help us see how it looks.

FRONT ELEVATION



SIDE ELEVATION



REAR ELEVATION



3. ROOM LAYOUTS

Room layouts show how furniture and elements fit in a space.



LIVING ROOM LAYOUT

GOOD DESIGN PRINCIPLES

- **FUNCTION** – Does it work well?
- **FORM** – Does it look good?
- **COMFORT** – Is it pleasant and safe?
- **SUSTAINABILITY** – Is it good for the environment?
- **CONTEXT** – Does it fit its surroundings?

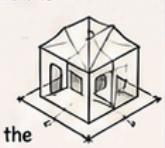
4. DESIGN THINKING IN ACTION

PROBLEM	IDEAS	SOLUTION	RESULT
We need a small house for a family.	Sketch different options.	Choose the best design.	A functional, beautiful space!



TIPS FOR SUCCESS

- ✓ Use clear lines and neat drawings.
- ✓ Label everything.
- ✓ Include dimensions and scale.
- ✓ Think in 3D!
- ♥ Always keep the user in mind.



GREAT ARCHITECTURE STARTS WITH A GREAT IDEA AND A PLAN!