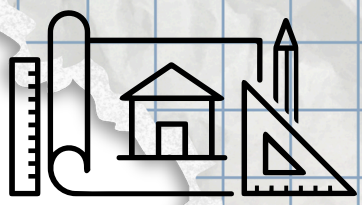
Professional Internship Program

Creative Projects

NKC SCHOOLS Professional Internship Program

ARCHITECTURE



Project 1: Building Design Analysis

In this project, you will explore the field of architecture by analyzing real-world building designs. You will examine how buildings are designed for purpose, aesthetics, and sustainability. Using your research, you will identify architectural trends and make recommendations for effective design.

Step 1: Research Buildings

Find 5-8 buildings (local or from credible online sources)

Record the following for each:

- Building name and location
- Architectural style (modern, traditional, industrial, etc.)
- Purpose (residential, commercial, educational, public, etc.)
- Materials used (glass, steel, wood, concrete, etc.)
- Sustainability features (energy efficiency, green roofs, solar, etc.)

Step 2: Organize Your Data

- Create a comparison chart or table (Excel or Google Sheets)
- Clearly display all buildings and their details
- Group or sort in a meaningful way (by style, purpose, or sustainability features)

Step 3: Analyze Design Trends

Identify patterns such as:

- Common architectural styles
- Frequently used materials
- How design connects to purpose
- Use of sustainable or eco-friendly features

Answer:

- What trends do you notice in building design?
- What makes certain designs more effective or appealing?
- What challenges do architects face when designing buildings?

Step 4: Make Recommendations

Based on your findings, answer:

- What should architects consider when designing modern buildings?

Provide 2–3 specific, realistic suggestions and explain them.

Examples might include:

- Incorporating sustainable materials and energy-efficient systems
- Designing flexible spaces that can serve multiple purposes
- Balancing aesthetics with functionality

Final Deliverables (2 Completed Projects)

1) Comparison Chart (Required)

A clear chart or table showing your 5–8 buildings and their details

2) Design Trends Summary (Required)

Choose one format:

- 1–2 page written summary

OR

- 6–8 slide presentation

Your summary must include:

- Overview of buildings analyzed
- Key architectural trends
- Explanation of effective design elements
- Your recommendations for architects

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Project 2: Concept Design Proposal

In this project, you will take on the role of an architect by designing your own building concept. You will apply what you've learned about design, purpose, and functionality to create a realistic and thoughtful proposal.

Step 1: Define Your Concept

Choose a type of building to design:

- School
- Home
- Community center
- Office building
- OR another approved idea

Determine:

- Purpose of the building
- Target users
- Key features and spaces

Step 2: Analyze Design Choices

Consider:

- *Layout and flow of the space*
- *Materials you would use*
- *Aesthetic style*
- *Sustainability features*

Answer:

- How will your design meet the needs of users?
- What makes your design unique or effective?

Step 3: Create Your Design

Create **2–3 design sketches or layout ideas** OR detailed visual descriptions if sketching is not possible.
Your design should show:

- Overall layout
- Key spaces or features
- Design elements (style, materials, etc.)

Step 4: Develop Design Rationale

Write a clear explanation of your design decisions.
Include:

- Why you chose this type of building
- How your design meets its purpose
- How it incorporates trends or best practices
- Any sustainability or innovation features

Final Deliverables (2 Completed Projects)

1) Concept Description (Required)

A written explanation of your building concept

2) Design Sketch or Layout (Required)

2-3 sketches or visual representations of your design

3) Design Rationale (Recommended)

A labeled drawing of your design