

CONSTRUCTION

Project 1: Project Site Analysis

In this project, you will explore the construction industry by analyzing real-world construction projects. You will examine materials, timelines, and safety practices to understand how projects are planned and completed. Using your research, you will identify trends and make recommendations for effective construction practices.

Step 1: Review Construction Projects (4-5 hrs)

Review **5-8 construction projects** (residential, commercial, infrastructure, etc.)

Record the following for each:

- Project name and location
- Type of project (home, commercial building, road, etc.)
- Materials used (wood, steel, concrete, etc.)
- Estimated timeline or phases
- Safety practices and considerations

Step 2: Organize Your Data

- Create a data table or chart (Excel or Google Sheets)
- Clearly display all projects and their details
- Group or sort in a meaningful way (by type, materials, or timeline)

Step 3: Analyze Trends

Identify patterns such as:

- Common materials used
- Typical project timelines
- Standard safety practices
- Differences between project types

Answer:

- What trends do you notice in construction projects?
- What practices lead to successful project completion?
- What challenges do construction teams face?

Step 4: Make Recommendations

Based on your findings, answer:

- What should construction teams focus on to improve project outcomes?

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

Examples might include:

- Improving safety protocols
- Using more efficient or sustainable materials
- Enhancing project planning and scheduling

Final Deliverables (2 Completed Projects) ★

1) Data Table (Required)

A clear chart or table showing your 5-8 projects and their details

2) Trends Report (Required)

Choose one format:

- 1-2 page written summary
- OR
- 10-12 slide presentation

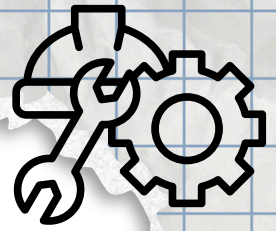
Your analysis must include:

- Overview of projects analyzed
- Key construction trends
- Explanation of effective practices
- Your recommendations for improvement



Creative Projects

CONSTRUCTION



Project 2: Build Plan Proposal

In this project, you will take on the role of a construction planner by designing a simple build plan. You will apply your understanding of materials, timelines, and safety to create a realistic and organized proposal.

Step 1: Define Your Project

Choose a type of project to design:

- Small home or structure
- Shed or outdoor space
- Community feature (park structure, shelter, etc.)

Determine:

- Purpose of the project
- Key features

Step 2: Plan Materials

Identify materials needed for your project.

Consider:

- Type of materials
- Quantity (estimated)
- Why they are appropriate for the project

Step 3: Create a Timeline

Develop a basic timeline that includes:

- Major phases (planning, foundation, building, finishing)
- Order of steps

Step 4: Address Safety Considerations

Identify key safety practices for your project.

Include:

- Equipment safety
- Worker protection
- Site safety measures

Final Deliverables (3 Completed Projects) ★

1) Timeline (Required)

A clear outline of the project phases and schedule

2) Materials List (Required)

A list of materials needed with brief explanations

3) Safety Considerations (Required)

A list of safety practices relevant to your project