AI Studio Projects

From Prompt to Finished Work



A HANDS-ON WORKBOOK

48 original projects for learning, writing, business, creative production and practical AI automation. Work with synthetic inputs, compare your results, and keep a record of what you changed.

https://ai-studio-projects.pages.dev/

FREE SAMPLE / ORIGINAL WORKBOOK PAGE NUMBERS

How to use this book

Choose any lab from the contents or PDF bookmarks. Work from the brief and work through the build before reading the example. The examples illustrate acceptable outcomes; model answers and generated media will vary. Keep a draft, a corrected version, and a short note on how you verified the change.

WHAT YOU NEED

A text editor is enough to read the fixtures and critique the examples. Use ChatGPT, Claude, or another chat tool to run the prompt exercises. Media and live integrations can require accounts or credits. The local Python capstone uses synthetic data and the standard library.

BEFORE USING LIVE MATERIAL

Check data permissions, tool access and rights before uploading or publishing. Verify factual claims against their sources. Keep proposed actions separate from approved execution. This independent workbook is not affiliated with any tool vendor.

OFFICIAL REFERENCES

OpenAI text generation

Claude prompt engineering

OWASP generative AI security

Give a Prompt a Testable Brief

Prompting, learning and client work

THE ASSIGNMENT

A vague request often produces a polished answer with the wrong facts or a fuzzy next step. Build a brief that specifies who will read the reply, what facts they need, and how you will judge it. Use a fictional repair shop so you can compare ChatGPT and Claude with the same input. Evaluate the observable result. The better answer is the one a customer can act on without guessing.

WHAT TO TURN IN

Save the artifact from this lab, your check results, and one change you made after review. Before submitting, use this first acceptance criterion: The suggested drop-off falls within 10 a.m. to 4 p.m. on a day the shop is open.

GOAL AND INITIAL ASSUMPTION

Work from the brief

Give a Prompt a Testable Brief

PRACTICE INPUT

SHOP CARD R1
Harbor Repair opens Tuesday through Saturday, 10 a.m. to 5 p.m.
Bike drop-off ends at 4 p.m. No appointment is required for drop-off.
A mechanic estimates price after inspecting the bike. No same-day promise.
QUESTION
Can I drop my bike off Monday at 4:30? I need it back that evening.
TEAM TARGET
Reply in 65 words or fewer. Offer the next feasible drop-off and state how turnaround is confirmed.

Save a clean copy of the brief. In your work log, separate fixed inputs from assumptions you are allowed to change.

INPUT FIELDS AND CONSTRAINTS

Build your first version

Give a Prompt a Testable Brief

01 | Run the request 'Answer the customer's question' with the shop card and question. Save the complete answer before making edits.

02 | Write a second prompt with named blocks for shop facts, customer question, deliverable, and acceptance checks. Tell the assistant to ask about unavailable details or leave them open.

03 | Run the revised prompt in separate chats in ChatGPT and Claude if you have access. Copy the same wording, label the results A and B, and assess each against the fixture.

04 | Check each factual statement and read the answer as the customer. Record the exact sentence you would keep, revise, or remove.

YOUR DRAFT OR SETTINGS LOG

Inspect a worked example

Give a Prompt a Testable Brief

Revised brief
Write a customer email reply using only SHOP CARD R1. Address Monday at 4:30, offer an eligible drop-off, and explain how timing is confirmed. Keep the reply within 65 words and avoid invented policies.
Candidate reply
Thanks for checking. We're closed Monday. You can drop off your bike Tuesday from 10 a.m. to 4 p.m. without an appointment. A mechanic will inspect it, then confirm the estimate and available turnaround. If you need the bike that same evening, please ask about timing before leaving it with us.

Trace one decision back to the brief. Name one detail you would handle differently and the evidence you would need.

EVIDENCE AND DIFFERENCES

Diagnose the first draft

Give a Prompt a Testable Brief

A PLAUSIBLE FIRST PASS

The reply says Tuesday at 4:30 is fine because the shop closes at 5. It also says most repairs finish in an hour. The first claim ignores the earlier drop-off cutoff. The second introduces a turnaround estimate with no support.

Locate the first point where this result stops satisfying the assignment. Write the smallest test that would expose the problem before release.

FAILURE SIGNAL AND LIKELY CAUSE

Make one repair

Give a Prompt a Testable Brief

A CONCRETE CORRECTION

Separate public opening hours from the last time the shop accepts a bike. Add a check that every time-related recommendation is inside both windows. Replace the invented estimate with the inspection process and an invitation to ask about timing.

Change one instruction, input, or gate. Repeat the original case, then try a nearby case. Record the before and after so the effect is visible.

CHANGE, RERUN, AND RESULT

Check before delivery

Give a Prompt a Testable Brief

For each check, write Pass, Revise, or Blocked. Attach the observed detail that justifies your result.

01 | The suggested drop-off falls within 10 a.m. to 4 p.m. on a day the shop is open.

STATUS AND EVIDENCE

02 | The answer addresses the request for same-evening service and keeps turnaround conditional on inspection.

STATUS AND EVIDENCE

03 | The customer can act on the next step and the reply is 65 words or fewer.

STATUS AND EVIDENCE

Make a judgment call

Give a Prompt a Testable Brief

01 | Would you offer a range or one specific hour? Explain how that choice affects a customer who needs a predictable handoff.

02 | Where in the reply would a clear limit on turnaround cause the least confusion?

03 | If A and B both pass every check, what would justify choosing the shorter reply?

DECISION, EVIDENCE, AND WHAT WOULD CHANGE IT

Handle a change request

Give a Prompt a Testable Brief

EXTENSION

Replace the question with 'I can only come on Sunday. Can my brother bring my bike on Friday at 3?' Keep the same card. Ask the assistant to distinguish a feasible drop-off time from an unverified policy about someone else dropping off the bike.

REVIEW AFTER THE RERUN

01 | Which part of the original brief transferred unchanged?

02 | Which claim became tempting to invent in the second case?

03 | What would you ask the shop to add to its source card?

EVIDENCE FROM THE SECOND RUN

Turn it into a reusable asset

Give a Prompt a Testable Brief

TRANSFER EXERCISE

Write a four-block prompt card for a real FAQ you maintain. Replace identifying details before testing and add one check for the boundary where your policy changes.

NEW INPUT AND EXPECTED DELIVERABLE

BOUNDARY OR EVIDENCE TO VERIFY

RELEASE DECISION AND NEXT OWNER