

# Prompt Documentation

## Prompt Name

Concept Study Guide Generator

## Purpose

Helpful for students or anyone trying to understand a difficult concept.

## Your Prompt

I am a student trying to understand [CONCEPT]. I want to have something to study with that explains it in simple terms so I can understand it better. I want a comprehensive study guide to help me with this goal. The study guide should include an easy explanation, a bulleted list of the 5 most important facets, and 10 practice questions to test my understanding. Please help create this study guide for me.

## Design Justification

### 1. Did you use a specific framework? If yes, which one and why is it appropriate for this use case?

I used the COAST framework because it works well with the multiple-step process I instructed.

### 2. Why did you structure your prompt this way? What specific elements did you include?

I included 3 different separate instructions, including an explanation, a list of facts, and practice questions. I did this because I wanted a specific output that generates different options for studying to get the most out of the prompt.

### 3. How does your prompt guide the AI effectively?

I give the AI background information as well as specific instructions to get an effective output.

### 4. What constraints or requirements did you add and why?

I added constraints to the bullet list and practice question amount to get a reasonable amount of study material so I can get a quick understanding and practice.

## Testing - Version 1

Use Case	Score	Brief Notes
<i>V1 Test 1: Photosynthesis and the calvin cycle</i>	<i>[89/100]</i>	<i>My prompt was clear and descriptive, but could use some more placeholders for usability.</i>
<i>V1 Test 2: Law of supply and demand</i>	<i>[84/100]</i>	<i>My prompt had good structure and reusability, though it could have specified things like the desired complexity level.</i>
<i>V1 Test 3: How cryptocurrency blockchains work</i>	<i>[82/100]</i>	<i>My prompt had a usable scope but it could have used more output constraints.</i>

**Version 1 Average Score: 85**

**Changes Made V1→V2:** No refinement needed - scored 85+ on first attempt

## Final Reflection

This prompt worked well because it gave clear instructions with a wide range of usability. With the placeholder, the prompt can be used to help someone understand a wide range of topics, and the chatbot will give approachable levels of detail.

## Best Used For

- A student has a test tomorrow and needs to understand a core concept from their textbook.
- A student/worker needs to create a presentation on a complex topic to an audience with limited knowledge.
- Someone wants to learn a new hobby or skill, but needs somewhere to start.