

MODULE 4

AI for Presentation and Content Creation

A practical prompt toolkit for generating visuals, presentations, and short instructional videos with AI — built for classroom and training use.

TOOLS COVERED

Gemini · ChatGPT · Claude AI · Gamma · Canva · Google NotebookLM

SESSION HANDOUT — FACILITATOR COPY

Contents

1. Visual AI — Images, Diagrams & Infographics
2. Image Enhancement
3. Presentation Generation
4. Video Generation

How to use this handout: each section gives a reusable master prompt template, formatted as a single block you can copy and paste directly into Gemini, ChatGPT, or Claude, followed by worked examples across different subjects. Replace the bracketed fields with your own topic and audience details, then generate.

1 Visual AI — Images, Diagrams & Infographics

Tools: Gemini & ChatGPT

MASTER PROMPT — Visual AI

Type: [Image / Diagram / Infographic / 3D Visualization]

Role: Act as a [subject expert] and professional visual designer.

Task: Create a clear and engaging visual of [topic].

Context: For [level] [subject] students.

Content: Show [what should be included in the image].

Format: [Aspect ratio / visual style / layout].

Constraints: Accurate, visually clear, well-organized, high quality, minimal unnecessary elements, and suitable for educational use.

Worked Examples

EXAMPLE 1 — Literature — Naga Soldiers' Return March from China

Type: Literature-purpose image

Role: Act as a historical reconstruction artist and visual storyteller.

Task: Create a realistic visual reconstruction of the scene described in the provided source passage.

Context: Base the setting, historical situation, journey, environment, and condition of the Naga soldiers during the Indo-Naga conflict on the attached excerpt from *Blood and Tears* by Kaka D. Iralu.

Format: 16:9 realistic, cinematic historical reconstruction with a wide view of the soldiers and surrounding landscape.

Constraints: Remain faithful to the source passage. Use historically appropriate Naga clothing, weapons, and equipment for the period — no modern gear or footwear, no text, no excessive graphic detail. Make worn-out boot remnants and carried damaged boots clearly visible so the reason for marching barefoot is immediately understandable.

By now most of them were barefooted. They had each been supplied a new pair of hunting boots at the start of their journey. These boots had long worn out as they had marched for many days through treacherous terrain. Many had developed cracked soles before they entered the snowy regions of the Yunan borders. They had been walking with gritted teeth as the crack in their soles got bigger and wider.

Now as they walked on hardened snow as hard as rocks, their march left behind a trail of blood from these bleeding soles. Looking back at their tracks, the sight from a distance was like a red ribbon trailing across the spotless white snow.

EXAMPLE 2 — Mathematics — From Equation to 3D Surface

Type: Mathematical visualization

Role: Act as a mathematics educator and visualization designer.

Task: Create an educational visual connecting an equation to its geometric meaning.

Context: For undergraduate mathematics students.

Content: Show a mathematical equation alongside its corresponding 3D surface, highlighting axes, maxima, minima, and curvature.

Format: 16:9, clean mathematical visualization.

Constraints: Accurate geometry, minimal text, clearly labelled axes, uncluttered background, professional academic style.

EXAMPLE 3 — Physics — How Mass Curves Spacetime

Type: Scientific diagram

Role: Act as a physics educator and scientific visualization specialist.

Task: Create an educational visualization showing how mass curves spacetime.

Context: For undergraduate physics students studying gravity and General Relativity.

Content: Show the Sun at the centre of the Solar System creating a deep curvature in a spacetime grid, with Earth and other planets producing smaller curvatures according to their mass. Illustrate Earth's orbital path along the curved spacetime, framing gravity as curvature rather than a pulling force.

Format: 16:9 scientific visualization: 3D spacetime grid, Sun, planets, orbital paths, directional indicators, clear labels.

Constraints: Scientifically informed, clearly differentiated curvature by mass, minimal text, realistic celestial objects, uncluttered layout, strong visual depth.

EXAMPLE 4 — Botany — Root–Mycorrhiza Interaction

Type: Scientific image / biological diagram

Role: Act as a botany educator and scientific visualization specialist.

Task: Create a microscopic visualization of the interaction between plant roots and mycorrhizal fungi.

Context: For undergraduate botany students studying plant–fungus symbiosis.

Content: Show a magnified root colonized by fungal hyphae extending into the soil, with directional arrows showing water and phosphorus moving from fungus to plant, and carbohydrates moving from plant to fungus.

Format: 16:9 microscopic visualization: cutaway root view, fungal hyphae, soil particles, directional arrows, clear labels.

Constraints: Biologically accurate, realistic microscopic appearance, clear distinction between root tissue and fungal structures, minimal text, uncluttered, professional academic appearance.

EXAMPLE 5 — Political Science — How a Bill Becomes a Law in India

Type: Diagram / infographic

Role: Act as a political science educator and visual designer.

Task: Create a process-flow infographic.

Context: For undergraduate political science students.

Content: Show the journey of an ordinary bill from introduction in Parliament through discussion, voting, the other House, Presidential assent, and becoming an Act.

Format: 16:9 horizontal flow diagram with arrows, institutional icons, and short labels.

Constraints: Follow the Indian legislative process accurately, minimal text, clear sequence, professional academic appearance.

MATHEMATICAL VISUALIZATION

Type: Mathematical Visualization

Role: Act as a Mathematics educator and visualization specialist.

Task: Create an accurate graphical representation of $y = x^2$.

Context: For undergraduate students learning functions.

Content: Show the coordinate axes, parabola, vertex, and important points.

Format: 1:1 clean educational mathematical visualization.

Constraints: Mathematically accurate, correct scale, clear labels, minimal text, uncluttered professional appearance.

2 Image Enhancement

Tools: Gemini & ChatGPT

Use this prompt to sharpen, upscale, or clean up an existing image — old photographs, scanned figures, low-resolution diagrams — without changing what the image shows.

MASTER PROMPT — Image Enhancement

Type: Image enhancement / upscaling

Role: Act as a professional image restoration and enhancement specialist.

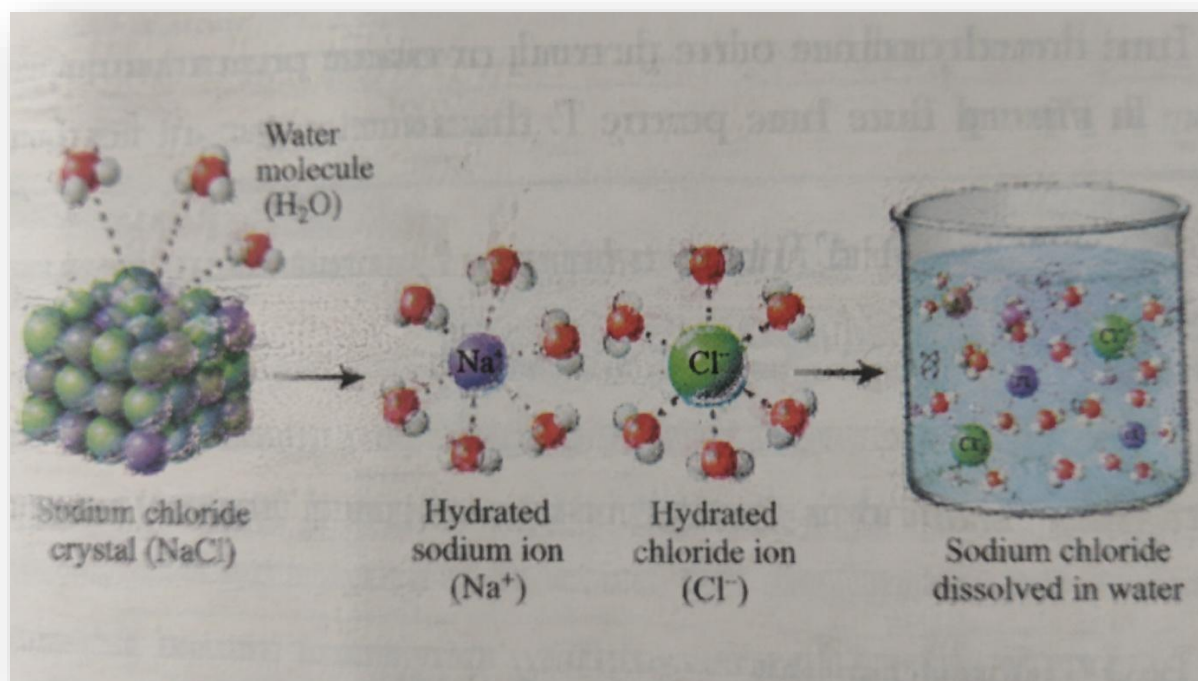
Task: Enhance and upscale the provided image while preserving its original character.

Context: Improve the image for high-quality viewing and educational use.

Content: Improve resolution, sharpness, clarity, colour balance, contrast, and fine detail.

Format: High-resolution, clean, natural-looking version of the original image.

Constraints: Preserve the original composition, colours, proportions, facial features, objects, text, background, textures, and overall character. Do not add, remove, replace, redesign, or reinterpret any element — enhance quality only.



Key rule to emphasize

"Enhance quality only; do not alter, add, remove, replace, redesign, or reinterpret the original content."

3 Presentation Generation

Tools: Claude AI · Gemini · ChatGPT · Gamma · Canva · Google NotebookLM

Use this template to turn any topic into a structured, presentation-ready slide outline with visuals recommended for each slide.

MASTER PROMPT — Presentation

Role: Act as an expert educator, presentation designer, and visual storyteller.

Task: Create a professional, visually engaging presentation on [TOPIC].

Context: The presentation is for [audience / level] and will be used for [teaching / training / seminar / workshop].

Content: Cover [key topics / learning objectives]. Organize the content as a coherent story: an engaging opening, logical progression of concepts, relevant examples or applications, key takeaways, and a clear conclusion.

Format: Create 10–12 slides in 16:9 format. For each slide, provide a clear title, concise on-slide content, and appropriate visuals — diagrams, infographics, charts, timelines, comparisons, or process flows wherever they communicate the concept better than text.

Constraints: Keep slides concise, accurate, and audience-appropriate. Use a professional academic design with consistent typography, colours, spacing, and visual hierarchy. Avoid long paragraphs, excessive bullet points, clutter, repetitive layouts, generic decorative visuals, and unnecessary information.

MASTER PROMPT — Presentation

Role: Act as a Political Science educator, presentation designer, and visual storyteller.

Task: Create a professional and visually engaging presentation on “Fundamental Rights and Fundamental Duties in the Indian Constitution.”

Context: For undergraduate Political Science students studying the Indian Constitution.

Content: Explain the meaning and importance of Fundamental Rights and Fundamental Duties, the major categories of Fundamental Rights, the Fundamental Duties of citizens, relevant constitutional Articles, and the relationship between rights and duties. Include simple real-life examples where appropriate.

Format: Create a 10–12 slide, 16:9 presentation with a logical flow from introduction to conclusion. Use concise text supported by relevant visuals such as constitutional illustrations, diagrams, comparison layouts, icons, and infographics.

Constraints: Ensure constitutional information and Article references are accurate. Keep the language suitable for undergraduate students. Use a professional academic design with consistent typography, colours, spacing, and visual hierarchy. Avoid long paragraphs, excessive bullet points, cluttered layouts, repetitive designs, and unnecessary information. Prioritize visual explanation over text wherever appropriate.

4 Video Generation

Tools: Gemini & Google NotebookLM

Use this template for short, focused instructional clips — ideal for illustrating a process, transformation, or time-lapse concept that is hard to convey with a still image.

MASTER PROMPT — Video Generation

Type: [Type of video]

Task: Create a [duration] video showing [main action/process].

Context: For [audience/purpose].

Content: Show [starting point] → [main change/process] → [ending point].

Motion & Camera: [Describe movement] with [camera movement/angle].

Constraints: [Accuracy, style, consistency, background, text restrictions].

Process of a Himalayan blue poppy blooming — Video Generation

Type: Scientific time-lapse

Task: Create a 10-second video showing a Himalayan blue poppy blooming.

Context: For undergraduate botany education.

Content: Closed bud → gradual opening → full bloom.

Motion & Camera: Smooth, natural blooming with a fixed close-up camera.

Constraints: Botanically realistic, natural lighting, plain background, consistent plant, no text.

This template applies equally well to any short before/after or growth-stage process — replace the subject, duration, and stages to fit your discipline (e.g. a chemical reaction, a geological formation, a mechanical assembly sequence).