

AI Content Creation For Productivity

IMPORTANT LOGIN INFORMATION FOR THE CLASS BELOW

Google account

1. **Sign in to your Google account.**
2. If you don't have one, go to <https://accounts.google.com.sg/> and click "Create account". Follow the steps to set up a new account.
3. **Verify your account** by following the prompts to use your phone number or email.

Gemini (For access to Nano Banana):

1. **Go to browser:** Type in "<https://gemini.google.com/app>" in the address bar and press Enter.
2. **Log In:** Select Sign in
3. Select your Google account and enter your password.

Google Labs:

1. **Go to browser:** Type in "<https://labs.google/fx/tools/flow>" in the address bar and press Enter.
2. **Log In:** Click Sign In with Google
3. Select your Google account and enter your password.

Suno:

1. **Go to browser:** Type in <https://suno.com/> in the address bar and press Enter.
2. **Log In:** Select Continue with Google
3. Select your Google account and enter your password.

Learning Activity 1 - Image Generation with SCENE

Inspiration Bank	
Subject	People - child, teen, adult, elder, toddler Objects - camera, watch, building, school, restaurants Animals - cat, dog, jellyfish, dragon, fox, dolphin
Context	Occasions- bamboo forest, desert dunes, snowy peak, café window, market street Time/Weather - dawn, golden hour,, midnight, foggy, stormy, snowfall Background Elements - skyline, neon billboards, cherry blossoms, lighthouse
Emotions	Calm - serene, tranquil, contemplative, gentle, soothing Positive - hopeful, joyful, triumphant, playful, heartwarming Tense - suspenseful, brooding, ominous, wistful, lonely Energetic -dynamic, exhilarating, fierce, spirited, electrifying
Narrative	Actions - gazing, reaching, running, performing, repairing, negotiating Interactions - feeding a koi, guiding a child, releasing lanterns, tending a garden
Effect	Styles -anime, manga, Pixar-like, Studio Ghibli-inspired, fantasy Photography style – portrait, food, street, event, travel, wildlife

 SKILLS DEVELOPMENT ACADEMY

Generate images with Nano Banana, **Example Final Prompt:**

"A curious child in a cozy, sunlit kitchen, with a feeling of warmth and joy, playing with a ball of yarn, in the style of a colorful children's book illustration."

Draft your prompt with the SCENE Framework based on any of the below subjects:

- Basketball
- House
- Man / Woman / Child
- Food
- Fruit

SCENE – Subject, Context, Emotions, Narrative, Effect

Example of SCENE framework below

Scenario: Modern HDB Living Room

Subject Clearly describing who or what the main focus of your image is.	Modern HDB living room
Context Describe the setting and environment where your subject is	4-room HDB apartment in Singapore, daytime
Emotion Define the mood and atmosphere you want the image to convey	Calm, warm, welcoming
Narrative Explain what is happening in the scene or what the subject is doing	A family-friendly living space designed for relaxing and spending time together
Effect Portrait, Travel, Street, Choose the visual style or final look of the image	Editorial Interior Photography style, clean, polished, photorealistic and magazine-worthy

Draft your prompt with the SCENE framework below

Subject Clearly describing who or what the main focus of your image is.	A modern luxurious good class bungalow
Context Describe the setting and environment where your subject is	1500sqft good class bungalow in singapore, night time
Emotion Define the mood and atmosphere you want the image to convey	natural , dreamy
Narrative Explain what is happening in the scene or what the subject is doing	a high intensity living space designed for family and friends gatherings
Effect Portrait, Travel, Street, Choose the visual style or final look of the image	in a hyper real , 8k , landscape visual style, wide angle shot

Learning Activity 2 - Image Generation with DARTS



Inspiration Bank

Depth of Field	Shallow DOF: blurred background, soft backdrop Deep DOF: everything sharp, clear background
Angle	Eye-level Low angle / worm's-eye (looks powerful) High angle / bird's-eye (looks small)
Range of Exposure	Balanced exposure/long exposed Underexposed / overexposed
Type of Shot	Close-up Medium shot Full body Wide / long shot
Source of Light	Natural: sunlight, golden hour, , window light Artificial: LED, neon, fluorescent, candlelight, firelight Mood: warm, cool, moody, dramatic, gentle

45

DARTS – Depth of field, Angle, Range of Exposure, Type of shot, Source of Light

Example of DARTS framework below

Scenario: Modern Hotel Lobby

Depth of Field Shallow vs deep depth of field	Deep depth of field, whole lobby in focus
Angle Camera point of view: eye-level, low, high, aerial	Low-angle view
Range of Exposure Balance exposure / Overexposed	Bright, balanced exposure
Type of Shot Close-up, mid-shot, wide shot	Wide-angle shot showing the whole scene
Source of Light Lighting style: natural, moody, soft, dramatic	Natural daylight through floor-to-ceiling windows, warm ceiling lights

Draft your prompt with the DARTS framework below

Choose ONE of the following prompts and generate the image in Nano Banana:

- Luxury Condo Living Room
- Cosy Bedroom at Night
- Designer Café Interior

Depth of Field Shallow vs deep depth of field	f/13 , muji designer cafe interior in focus
Angle Camera point of view: eye-level, low, high, aerial	three quarter angle
Range of Exposure Balance exposure / Overexposed	low angle view , ultra wide perspective
Type of Shot Close-up, mid-shot, wide shot	medium wide shot
Source of Light Lighting style: natural, moody, soft, dramatic	low golden hour sunlight shining into the space , making the space feel warmth

Learning Activity 3 - Putting it All Together



Inspiration Bank (ADD FRAMEWORK)

Add Subjects / Objects	Person: Man, woman, people, crowd etc Animal: Dog, cat, bird, fish, etc. Object: Chair, table, book, lamp, flower, bridge, wall, drink, Nature: Forest, beach, desert, ocean
Describe Details	Size: Small, large, tiny, huge, giant Color: Red, blue, green, yellow, black Texture: Smooth, rough, soft, hard, fluffy Shape: Round, square, triangular, oval, rectangular Mood - Happy, sad, angry, joyful, serene, calm, excited, curious,
Define Placement and Interaction	Placement Above, below, next to, beside, in front of, behind, on, under, near, far Direction: Towards, away from, facing, leaning against, pointing at Position: Slightly, directly, partially, completely etc Interaction Relational: Interacting with, looking at, playing with, talking to, connected to,, holding hands with Action: Running alongside, jumping over, sitting on, standing near Emotional: Enjoying, observing, contemplating etc

70

ADD – Add subjects/objects, Describe details, Define placement and interaction

Example of ADD framework below:

Scenario: A young woman sitting on a park bench reading a book

Add Subjects / Objects Introduce new characters, animals, or objects.	<u>Add</u> a baby panda near the woman
Describe Details Specify appearance, features, or actions of added elements.	The baby panda is eating a bamboo shoot and wears a straw hat. The woman is asian, black framed glasses, short black hair, white blouse, denim jeans.
Define Placement and Interaction Position new elements within the scene and describe interactions with existing subjects.	The baby panda is resting beside the woman on the bench, both of them are in a Singapore park.

Use the ADD framework:

Choose ONE of the following prompts and generate the image in Nano Banana:

- A wide-angle plain interior space of a home study room
- A wide-angle plain interior space of a retail fashion boutique
- A wide-angle plain interior space of an office reception area
- A wide-angle plain interior space of a spa treatment room

Refine the prompts using the template below

Add Subjects / Objects Introduce new characters, animals, or objects.	Add 5 proto-type hyper cars that you might think will be produced in 2030
Describe Details Specify appearance, features, or actions of added elements.	the cars are black and white in matt colours, add in racing stickers on the cars. Add in some features of the car that could amaze me and others during my presentation
Define Placement and Interaction Position new elements within the scene and describe interactions with existing subjects.	Make sure the cars are parked side by side , cars also have their lights on to make it more aesthetic. Keep everything else the same. Keep it realistic and make sure it is in a natural proportion

Learning Activity 4 - Digital Mood Board Creation

Example of **Moodboard Creation** below:

Theme	Interior Design Concept for Modern Home Study Room
Style	Modern minimalist
Lighting	Soft natural daylight with warm desk lighting
Colour & Material	Light wood, white, beige, glass
Feeling	Calm, focused, organised

Final Prompt:

Create a digital moodboard of at least 4 images for a modern home study room in a minimalist style, with soft natural daylight and warm desk lighting, using light wood, white, beige and glass materials, showing a calm, focused and organised feeling

Create a moodboard with Nano Banana based on your chosen theme.

Choose ONE of the following themes:

- Singapore HDB
- Retail Store
- Corporate Office
- Café / Restaurant
- Hotel / Hospitality Space

Use the following prompt to create your moodboard:

Create a digital mood board of at least 4 images for [theme], in [style], with [lighting], using [colour/material], showing a [feeling].

Inspiration bank (Pick 2–3 words from each category, not everything):

Style: minimalist, modern, contemporary, Scandinavian, Japandi, wabi-sabi, industrial, rustic, vintage, retro, luxury, biophilic, tropical, mid-century modern, futuristic

Lighting: warm, cool, soft, bright, natural daylight, diffused, ambient, moody, dramatic, backlit, indirect lighting, pendant lighting, accent lighting

Colour / Material: wood, oak, walnut, marble, stone, concrete, glass, metal, brass, black steel, rattan, linen, fabric, leather, pastel, earthy, neutral, monochrome, bold, muted

Feeling: calm, cosy, warm, welcoming, relaxed, peaceful, elegant, luxurious, sophisticated, playful, energetic, bold, clean, spacious, intimate, dreamy

Share your mood board with the class.

Create your **Moodboard** using the template below:

Theme	interior design concept for singapore hdb maisonette
Style	japandi , modern wabi-sabi
Lighting	soft, bright , dramatic , golden hour
Colour & Material	wood, oak ,
Feeling	

Final Prompt:

Learning Activity 5 - Rewriting Prompts to Reduce Bias with FAIR

- Identify the biases in the images generated by AI Tools in the following slides.
- Rewrite the prompts with FAIR.
- Generate the images again with the FAIR prompt and compare the results.

Rewriting Prompts to Reduce Bias with FAIR

Original prompt:

Create an image of people in office

Rewrite prompt:

Create an image of a diverse group of professionals , both male and female , different ages and ethnicities, working in office.



Rewriting Prompts to Reduce Bias with FAIR

Original prompt:

Create an image of a nurse taking care of a patient.

Rewrite prompt:

Create an image of a diverse group of 20 doctors , both male and female, different ages and ethnicities, taking care of a patient.



Rewriting Prompts to Reduce Bias with FAIR

Original prompt:

Create an image of a group of friends using AI tools

Rewrite prompt:

Create an image of a diverse group of 100 professionals, both male and female , different ages and ethnicities, building ai contents on a rooftop



Learning Activity 6 - Natural Language Processing



This prompt was used to generate the image on the following slide:

"A happy group of friends enjoying their meals at the Singapore hawker center, everyone smiling and their hands waving at the camera, ultra-realistic photo."

Study the image on the next slide carefully and identify any issues you spot

- Look closely at the hands, fingers, arms, and faces.
- Circle or note anything that looks strange, distorted, or unrealistic.

Rewrite the prompt below to fix the issues (i.e. distorted hands, unnatural proportions)

A happy diverse group of 6 asian friends , both males and females , different ethnicities and ages enjoying their meals at the Singapore hawker center, everyone smiling and their hands waving at the camera, each person have one head , two arms , five fingers on each hand clearly visible, ultra-realistic photo with natural proportion.

Inspiration Bank

Subject & Setting	People - child, teen, parent, teacher, hero, elder Creatures/objects - dog, cat, koi, dragon, drone, vintage camera Places - classroom, café, market street, rooftop, beach, hospital Time/conditions - dawn, golden hour, night, rainy
Theme / Tone	Hopeful, joyful, calm, romantic, playful, mysterious, tense, somber, heroic, inspirational, comedic, gritty, whimsical
Obstacles / Action	Obstacles - deadline, broken device, locked door, fire, traffic jam, power cut etc Actions - searching, negotiating, rescuing, escaping, hiding, competing, teaching, comforting, celebrating
Recording Angle	Camera Angles: Eye level, low angle, high angle, dutch angle, first-person point of view Shot Types: Extreme close-up, close-up, medium shot, full-body shot, wide shot, aerial shot Camera Movement: Pan left / right, Dolly in / out, Tilt up / down, Tracking shot
Yield Creativity	Style - anime, watercolor, claymation, pixel art Twist - time loop, hidden message, tiny-to-giant scale, dream sequence Motifs - cherry blossoms, neon signs, lanterns, jellyfish glow, origami shapes

- Based on your image generated from the SCENE + DARTS + ADD prompt, animate it in Flow
- Use the template to fill in your STORY
- Follow instructions in the next slide to animate your image using Flow
- Share your creation with the rest of the class

Example of STORY framework in Google FLOW

Scenario: Empty Room → Calm Wabi-sabi Living Space

Subject & Setting Define the main character(s) and environment	An empty room transforming into a calm wabi-sabi living space.
Theme / Tone Decide the mood or emotional tone	Peaceful, earthy, warm, natural.
Obstacles / Action What is happening? What's the story?	The room starts plain and empty, then furniture and décor smoothly morph into place one by one — aged wood furniture, low table, textured rug, floor lamp, handmade ceramics, shelving, and soft linen elements.
Recording Angle From what camera angle should the scene be recorded?	Static eye-level wide shot. The camera remains completely fixed in one position. No pan, tilt, zoom, dolly or tracking movement. No camera, tripod, filming equipment or crew visible in the scene.
Yield Creativity Combine elements creatively for originality	Smooth morphing effect, soft warm daylight, gentle shadows, muted beige and earthy tones, natural materials, subtle imperfections, calm premium interior feel.

Draft your prompt with the STORY framework below

Subject & Setting Define the main character(s) and environment	Extreme macro shot. Human hand cuts the yellow shipping seal using miniature bolt cutters. Satisfying clean cut. 0.7-1.4s Macro shot. Miniature metal crowbar unlocks the container bars. Doors begin opening with realistic metal sound. 1.4-2.2s Container opens fully. The car (NISSAN GTR 35) is revealed inside, covered with protective plastic. Display platform smoothly slides forward. 2.2-3.2s Medium hero shot. Driver appears and pulls the large plastic cover downward in one confident motion, revealing the glossy car surface. 3.2-3.9s Macro shot. Stainless tweezers remove a small protective film patch from the door , revealing flawless paint. 3.9-4.6s Macro shot. Driver door slowly opens. 4.6-5.4s Interior macro. Human fingers remove protective film from the steering wheel smoothly. 5.4-6.1s Macro interior.Finger presses a separate physical start/stop button on the center console.Dashboard powers on. 6.1-6.9s Front hero shot.LED lights activate with premium sequential animation. Reflections move across the paint. 6.9-7.7s Macro exhaust shot. Engine starts, exhaust vibrates, brief blue flame and subtle white vapor appear. 7.7-8.7s Front beauty shot. Finished car with headlights on. Driver visible through windshield, seated with seatbelt and hands on steering wheel. 8.7s-10s The car drives out of the workshop smoothly. Camera tracks the vehicle through warm workshop lighting into a cinematic night road. Neon reflections, wet asphalt , headlights , realistic motion blur. Driver remains visible and focused. End with car accelerating forward. Note: Remain uploaded reference driver throughout the video
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Theme / Tone Decide the mood or emotional tone	
Obstacles / Action What is happening? What's the story?	
Recording Angle From what camera angle should the scene be recorded?	
Yield Creativity Combine elements creatively for originality	

Learning Activity 8 – SOUND FRAMEWORK - Text-to-Music with Suno



Inspiration Bank

Style / Genre	Pop, R&B, hip hop, drum & bass rock, country, jazz, blues, funk, soul, K-pop, classical, orchestral
Overall Mood / Emotion	Happy, upbeat, inspiring, hopeful, triumphant, calm, romantic, warm, cozy
Use of Instruments	Piano, electric piano, electric guitar, bass guitar, strings (violin/viola/cello), brass (trumpet/trombone), woodwinds (flute/clarinet)
Narrative Tempo / Rhythm	Tempo (BPM): slow 60–80, mid 90–110, pop 110–128, dance 120–130, fast 140+ Motion words: gentle rise, steady pulse, driving beat, dramatic build
Details on Vocals / Lyrics	Vocal presence: lead vocal (male/female/child/choir) Language/tone: English, Mandarin, Malay, Tamil Tone: warm, corporate, friendly, playful, inspirational Themes: teamwork, resilience, gratitude, celebration, motivation, love

- Choose 1 of the following genres and fill in the template for the SOUND framework
 - Ballad
 - Rock & Roll
 - Hip Hop
 - R&B
 - Pop
- Follow the instructions in the next slides to create your song on Suno

Example of SOUND framework in Suno

Style / Genre What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.)	Modern pop with light R&B and electronic influences
Overall Mood / Emotion What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious, energetic)	Upbeat, feel-good, youthful and energetic
Use of Instruments Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.)	Synths, punchy drums, bass, light piano and electronic effects
Narrative Tempo / Rhythm How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.)	Mid-to-upbeat tempo with a catchy groove and strong chorus
Details on Vocals / Lyrics Do you want lyrics or just instrumental? If lyrics, what theme?	Male or female vocal, simple catchy lyrics about food, city life, late-night outings and enjoying everyday moments in Singapore

Draft your prompt with the SOUND framework below

Style / Genre What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.)	Modern Mandopop Ballad with light emo rap and melodic rap
Overall Mood / Emotion What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious, energetic)	unresolved heartbreak , self blame and missing that someone important to me
Use of Instruments Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.)	Intro - raw piano or ambient guitar loop with light vocal textures or sound effect (eg. vinyl crackle or rain) verse - Low- energy rhythmic delivery. The drums enter here but are often filtered (low pass) or kept simple to keep the focus on the vulnerable vocals. pre-chorus- the rising tension. Elements like riser effects , sub-bass glides , and rapid hi-hats start bleeding in to signal the shift. chorus - the emotional explosion. Full drum kit , heavy sub-bass , thick vocal layers , and sweeping cinematic strings all hit at once.
Narrative Tempo / Rhythm How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.)	Tempo: typically slow to mid-tempo , ranging between 75 BPM to 95 BPM. Key signatures: stick to minor keys. C# Minor , F minor or A minor.

Details on Vocals / Lyrics

Do you want lyrics
or just instrumental? If
lyrics, what theme?

raspy , airy tone. when recording, sing close to the microphone (utilizing the proximity effect for warmth) and allow breathiness to come through

the half-spoken , half sung flow. The verses use a lazy, triplet- heavy melodic rap flow. it should sound conversational , slightly behind the beat and effortlessly rhythmic.

Learning Activity 9 - Refining CLEAR Prompts

Rewritten Prompt Below:

1. Create photorealistic image of a Indonesian farmer working under the hot sun in a paddy rice field with tattered clothes and a sad face.
2. Make a hyper-realistic portrait of a group of young teenage girls in bikini playing volleyball at the East Coast beach.
3. An image of Black Pink members arguing with each other behind the concert backstage.

Example of CLEAR framework to check for Ethical Prompting

Scenario: Create a photorealistic image of Taylor Swift working as a cashier at a Singapore hawker centre during lunchtime.

	Description	Type Yes / No in the boxes below
Check originality	Is the image idea an original creation?	Yes
Language sensitivity	Does the prompt treat people fairly, without stereotypes about race, gender, age, or culture?	No
Ethical references	Does the prompt copy an existing artwork, style, or photo without giving credit?	No
Appropriate themes	Could this image idea make people uncomfortable, or include discrimination, hate, harm, or sexual content?	Yes
Respect boundaries	Does the prompt remove the real people's names or faces, or single out a race or group?	No
Rewritten Prompt using CLEAR framework	<i>Create a photorealistic image of a cashier at a Singapore hawker centre during lunchtime.</i>	

Use the template in the next step to refine the prompt ethically using the CLEAR framework

Scenario: An image of Black Pink members arguing with each other behind the concert backstage.

	Description	
Check originality	Is the image idea an original creation?	yes
Language sensitivity	Does the prompt treat people fairly, without stereotypes about race, gender, age, or culture?	no
Ethical references	Does the prompt copy an existing artwork, style, or photo without giving credit?	no
Appropriate themes	Could this image idea make people uncomfortable, or include discrimination, hate, harm, or sexual content?	yes
Respect boundaries	Does the prompt remove the real people's names or faces, or single out a race or group?	no
Rewritten Prompt using CLEAR framework	<i>create an image of a group of k-pop singer arguing with each other behind backstage</i>	