

AI Content Creation For Productivity

IMPORTANT LOGIN INFORMATION FOR THE CLASS:

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:

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

Suno:

- **Go to browser:** Type in <https://suno.com/> in the address bar and press Enter.
- **Log In:** Select Continue with Google
- 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: A barista at work

Subject Clearly describing who or what the main focus of your image is.	An asian barista in his 30s at work
Context Describe the setting and environment where your subject is	In a modern cafe
Emotion Define the mood and atmosphere you want the image to convey	Feeling focused, calm and cheerful
Narrative Explain what is happening in the scene or what the subject is doing	Preparing a cup of coffee behind the counter while interacting with customers
Effect Portrait, Travel, Street, Choose the visual style or final look of the image	Portrait photography style, hyper real, 8k, 16:9

Draft your prompt with the SCENE framework below

Scenario: A house for sale

Subject Clearly describing who or what the main focus of your image is.	A “rumah panggung” made of timber-framed structures on elevated on stilts. Meticulously Restored, Ultra-Luxury Heritage Estate. Tall and huge.
Context Describe the setting and environment where your subject is	surrounded by lush paddy fields and a well.
Emotion Define the mood and atmosphere you want the image to convey	Calm, serene, tranquil, nostalgic
Narrative Explain what is happening in the scene or what the subject is doing	A Malay grandmother sitting outside the house drinking coffee while gazing towards the sky at kites flying against the wind towards the evening sky
Effect Portrait, Travel, Street, Choose the visual style or final look of the image	In the photography style of architectural, hyper real, 8k

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

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

Example of DARTS framework below

Scenario: A cyclist riding through a city at night

Depth of Field Shallow vs deep depth of field	Shallow depth of field, cyclist in focus
Angle Camera point of view: eye-level, low, high, aerial	Low-angle shot
Range of Exposure Balance exposure / Overexposed	Slightly underexposed for a moody night feel
Type of Shot Close-up, mid-shot, wide shot	Wide shot showing the cyclist and surrounding city
Source of Light Lighting style: natural, moody, soft, dramatic	Artificial neon street lights and vehicle headlights

Draft your prompt with the DARTS framework below

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

- A family walking by Marina Bay Sands
- A child flying a kite at East Coast Park during sunset
- A street food vendor cooking at a busy night market

Scenario: An Indian street food vendor cooking prata at a busy night market

Depth of Field Shallow vs deep depth of field	Shallow depth of field, street food vendor in focus.
Angle Camera point of view: eye-level, low, high, aerial	Low-angle shot
Range of Exposure Balance exposure / Overexposed	Balanced exposure
Type of Shot Close-up, mid-shot, wide shot	Wide Shot, the street vendor and surrounding city
Source of Light Lighting style: natural, moody, soft, dramatic	Artificial neon street lights

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

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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 quiet beach with gentle waves and colourful umbrellas
- An office meeting room with a presentation screen and chairs
- A kitchen with a table and cooking equipment
- A desert surrounded by sand dunes and sunset

- A school classroom with desks, a whiteboard and large windows

Refine the prompts using the template below

Scenario: A desert surrounded by sand dunes and sunset

Add Subjects / Objects Introduce new characters, animals, or objects.	Add a pyramid in the forefront of the desert. With Anubis and Sphinx on each side of the pyramid.
Describe Details Specify appearance, features, or actions of added elements.	The guardians are wearing sunglasses and taking selfies. Keep it realistic with natural proportions.
Define Placement and Interaction Position new elements within the scene and describe interactions with existing subjects.	The two guardians are standing on each side of the pyramid.

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

Use 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:

- Interior Design Concept for an HDB Flat (Modern, Scandinavian, Smart home)
- Interior Design for Retail Shop (Fashion, Hair Salon, Sports)
- Product Design Concept for Headphones (Gaming, Premium, Eco-friendly)

- Product Design Concept for Backpack (Travel, School, Hiking)

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 (Choose 1–2 words from each category)

Style: minimalist, modern, contemporary, Scandinavian, Japandi, industrial, luxury, retro, vintage, futuristic, rustic, sporty, playful, elegant, premium, eco-friendly, tech-inspired, urban, classic

Lighting: warm, cool, soft, bright, natural, diffused, ambient, moody, dramatic, neon, backlit, studio lighting, golden-hour, high-contrast, low-light

Colour / Material: wood, metal, glass, leather, fabric, canvas, plastic, recycled material, aluminium, stainless steel, rubber, stone, concrete, marble, rattan, pastel, neon, neutral, earthy, monochrome, bold, metallic, matte, glossy

Feeling: calm, happy, bold, relaxed, cosy, dreamy, energetic, premium, sophisticated, playful, adventurous, sporty, futuristic, welcoming, clean, youthful, professional, luxurious, natural, creative

Share your mood board with the class.

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

Theme	Product Design Concept for Headphones (Gaming, Premium, Eco-friendly)
Style	futuristic
Lighting	backlit
Colour & Material	red, leather and plastic
Feeling	sporty, futuristic and premium

Use Final Prompt: *Create a digital moodboard of at least 4 images for a Product Design Concept for Headphones (Gaming, Premium, Eco-friendly) in a futuristic and premium style, with backlit and warm desk lighting, using red, leather and plastic materials, showing a sporty, futuristic and premium feeling*

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 people, both males and females, with different ethnicities and ages (30-50) working in a modern 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 3 doctors and 2 nurses, both males and females, with different ethnicities and age group working in a Singapore hospital, taking care of a female 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 diverse group of friend, males and females, different ages and ethnicities using AI tools



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** friends, **males and females, with different ethnicities and ages (25-40)** enjoying their meals at the Singapore hawker center, everyone smiling and their hands waving at the camera, **each person has one head, two arms, five fingers on each hand clearly visible, natural proportions**, ultra-realistic photo.



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: A boy finds a lost dog at the beach

Subject & Setting Define the main character(s) and environment	A middle-aged Malay makcik wearing a hijab , at a busy MRT/train station platform in Singapore. She is carrying and dragging several large, heavy suitcases and shopping bags while a train is about to leave the station.
Theme / Tone Decide the mood or emotional tone	Frantic, humorous, chaotic and relatable. The scene should capture her panic and determination, with a light-hearted “alamak!” feeling rather than sadness.
Obstacles / Action What is happening? What’s the story?	The makcik realizes she is about to miss her train and desperately runs toward it while struggling with her heavy luggage. Her suitcases wobble behind her, bags swing from her arms, and she reaches toward the train just as the doors close and the train begins moving away.
Recording Angle From what camera angle should the scene be recorded?	Use a wide cinematic tracking shot from a slightly low angle , following her as she runs along the platform. Include some motion blur in her luggage and the departing train to emphasize speed and urgency.
Yield Creativity Combine elements creatively for originality	Add small humorous details: one suitcase rolling awkwardly sideways, a shopping bag almost slipping from her hand, her hijab fluttering slightly as she runs, surprised commuters turning to look, and her reaching dramatically toward the departing train. Capture a spontaneous, cinematic “alamak, I missed it!” moment .

A flustered makcik rushes breathlessly down the Singapore MRT platform, desperately dragging two oversized suitcases and several heavy bags. Her tudung and clothes flutter as she runs, one bag swings wildly from her arm, and her face is filled with panic and disbelief. She stretches out her hand toward the train just as the doors close, watching in exhausted frustration as it begins to pull away. In that chaotic, humorous, and painfully relatable moment, she exclaims in Singlish, "Alamak! Cannot wait for me meh? My luggage heavier than my problems, leh!"

A funny 10-second video of a Singaporean makcik in her HDB living room at night, chasing a mosquito with an electric mosquito racket.

She keeps missing and gets more annoyed. She waves the racket around and says in Singlish:

"Wah lao eh! Why you keep biting me? I your buffet ah?!"

The mosquito flies past her face again. She screams:

"Eh! Come back here!"

Photorealistic, funny facial expressions, natural Singlish accent, fast comedy, realistic Singapore home setting.

Draft your prompt with the STORY framework below

Scenario: A boy finds a lost dog at the beach

Subject & Setting Define the main character(s) and environment	A young boy walking alone at a beach during golden hour
Theme / Tone Decide the mood or emotional tone	Hopeful, warm and emotional
Obstacles / Action What is happening? What's the story?	He notices a lost dog near the water, approaches slowly, then comforts it
Recording Angle From what camera angle should the scene be recorded?	Start with a wide eye-level shot, then move into a medium tracking shot as he walks toward the dog
Yield Creativity Combine elements creatively for originality	Add a magical twist at the end: glowing sparkles and heart shaped elements slowly appear around them as the boy hugs the dog, cartoon style

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 ONE 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 in english 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.)	Indie-pop with light R&B and with a cinematic build
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 Around 75–95 BPM
Details on Vocals / Lyrics Do you want lyrics or just instrumental? If lyrics, what theme?	Male or female vocal, simple catchy lyrics in english about life is precious, you are stronger than what you're facing, and difficult moments can be overcome

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 a photorealistic image of a diverse group of KPOP members, males and females (do not resemble any public figures) arguing with each other behind the concert backstage.</i>	

[11:23 am, 19/09/2026] +65 9695 1150: SCENE practice:

[11:23 am, 19/09/2026] +65 9695 1150: subject: a group of asian children playing

context: at a playground

emotions: fun, playful, chaotic

narrative: 2 boys are on a swing, while the other 3 girls are playing catching as laughter fills the air

effect: in the style of portrait photography, hyper real, 8k, 16:9

[12:42 pm, 19/09/2026] +65 9695 1150: Lunch time practice:

// selfie with celebrities

Wide-angle group selfie shot, the from uploaded photo in a plain oversized white tee and jeans, natural everyday grooming, candid neutral expression, arm extended holding a smartphone; only the main cast squeezes into frame: Dr. Grant, Dr. Sattler, and Dr. Malcolm in official Jurassic Park wardrobe (khaki safari outfits); mid-shoot next to jungle set dressing and an animatronic dinosaur/raptor prop; visible camera crane, fog machines, crew, clapperboard; photorealistic documentary aesthetic; 8K; no text, no logos, 9:16

[12:42 pm, 19/09/2026] +65 9695 1150: Remember to change it to your favourite stars to take photo with!



You can try this too.

Prompt:

Create a cinematic black-and-white studio portrait of a young Asian man in a dark high-neck top, captured in a close-up three-quarter side profile. He is leaning slightly forward with his head turned back toward the camera, giving a calm, intense, confident expression. His hair is neatly styled with volume, swept back naturally, with a slightly tousled texture. Add small hoop earrings for a subtle edgy detail.

Use dramatic low-key lighting with strong contrast, soft shadows across one side of the face, and a gentle highlight on the cheekbone and jawline. The background should be a simple dark grey studio backdrop with a soft gradient and subtle film grain. Keep the mood elegant, mysterious, editorial, and cinematic.

Shot on a portrait lens, shallow depth of field, high-fashion magazine style, realistic skin texture, sharp facial details, smooth tonal range, monochrome photography, moody atmosphere, minimalist composition.