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
- **S**elect 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



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 #1 of SCENE framework below

Scenario: Photorealistic image of 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

Example #2 of SCENE framework below

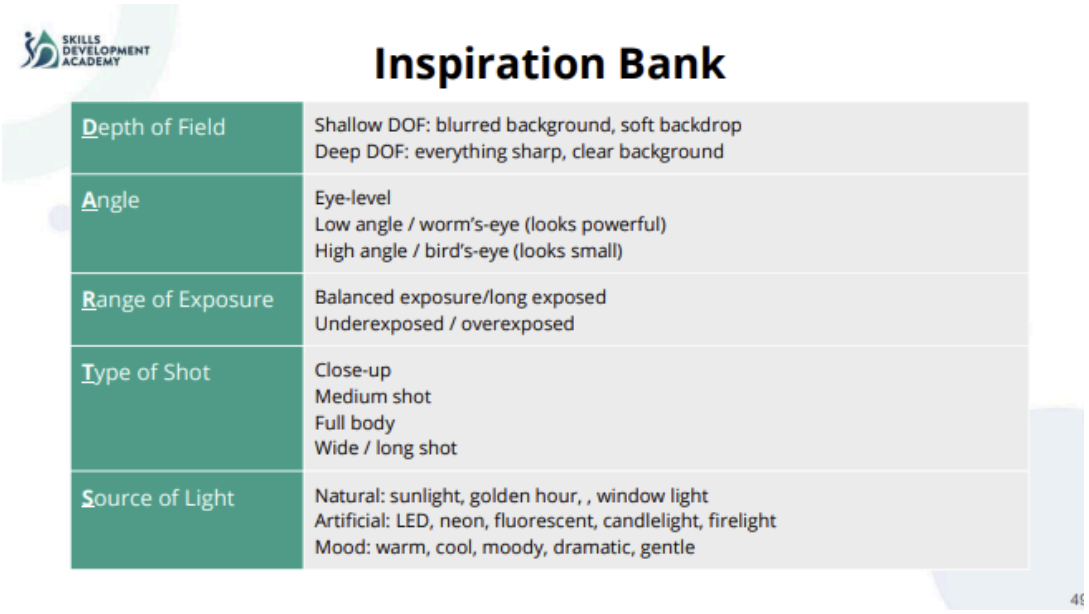
Scenario: 2D animation image of friends playing badminton

Subject Clearly describing who or what the main focus of your image is.	A group of 4 Asian friends in their 20s and 30s playing badminton
Context Describe the setting and environment where your subject is	At an indoor badminton court
Emotion Define the mood and atmosphere you want the image to convey	Energetic, cheerful and competitive
Narrative Explain what is happening in the scene or what the subject is doing	Two friends are playing a match while the other two watch and cheer from the side
Effect Portrait, Travel, Street, Choose the visual style or final look of the image	Sports photography style, 2D animation, sharp action, 16:9

Draft your prompt with the SCENE framework below

Subject Clearly describing who or what the main focus of your image is.	An asian tanned male model in his 30s at work
Context Describe the setting and environment where your subject is	in a modern ecstatic cafe with kampung feel
Emotion Define the mood and atmosphere you want the image to convey	feeling happy, friendly, warm and focus
Narrative Explain what is happening in the scene or what the subject is doing	preparing a cup of latte behind the counter while having a chat with customer
Effect Portrait, Travel, Street, Choose the visual style or final look of the image	portrait photography style, hyper real, 8k

Learning Activity 2 - Image Generation with DARTS



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

Example of DARTS framework below

Scenario: Photorealistic image of a cyclist riding along the pavement beside a city street 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	Worm's-eye view
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

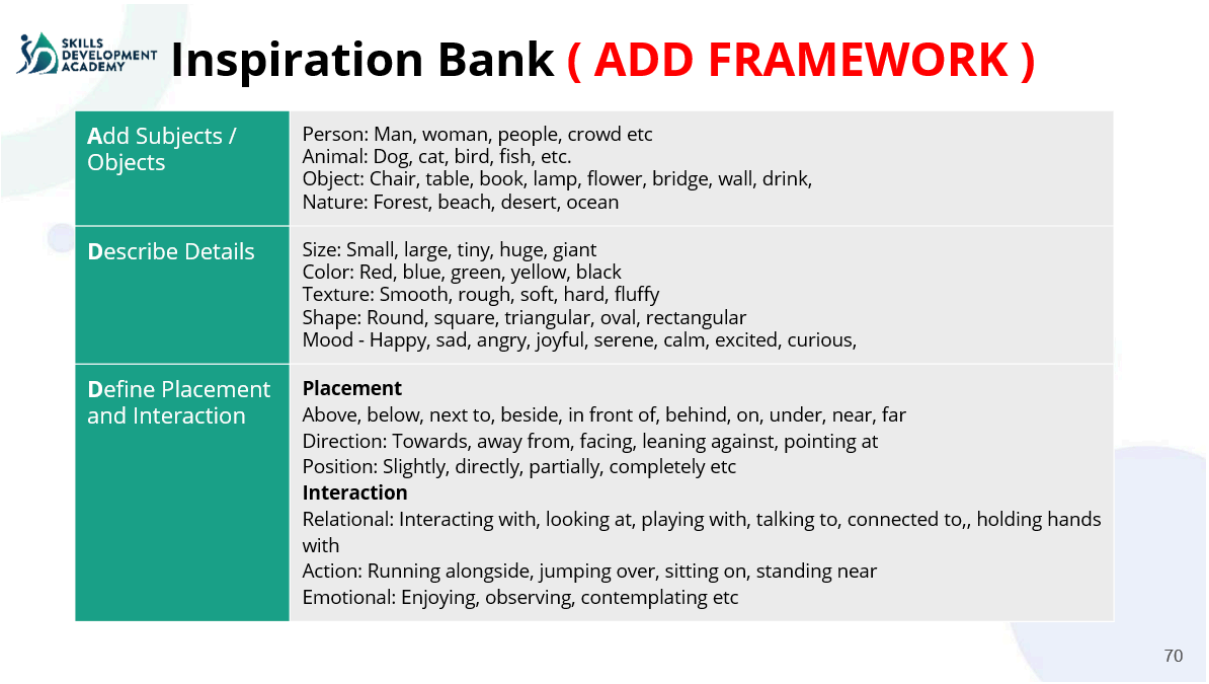
Draft your prompt with the DARTS framework below

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

Depth of Field Shallow vs deep depth of field	shallow depth of field, the family of 5, the mum in focus
Angle Camera point of view: eye-level, low, high, aerial	worm's eye view
Range of Exposure Balance exposure / Overexposed	balanced exposure for a happy cheerful feel
Type of Shot Close-up, mid-shot, wide shot	wide shot showing the background of the singapore flyer
Source of Light Lighting style: natural, moody, soft, dramatic	natural light, golden hour

Learning Activity 3 - Putting it All Together



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.	Add 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

Add Subjects / Objects Introduce new characters, animals, or objects.	add a male surfer at the beach
Describe Details Specify appearance, features, or actions of added elements.	the surfer trying to balance on the surf board in the waves and is waving to a friend seating on the beach
Define Placement and Interaction Position new elements within the scene and describe interactions with existing subjects.	Placed the surfer at the big waves make it realistic

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 a **Digital Moodboard** using the template below:

Theme	Interior Design Concept for an HDB Flat Modern home living room
Style	modern minimalist
Lighting	warm, soft low light
Colour & Material	wood, white, black, fabric
Feeling	luxurious, organised, relaxed

Use 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 people, both males and females, with different ethnicities and ages (25-60) working in an 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 4 medical staff (2 doctors and 2 nurses) both males and females, different ethnicities and ages, taking care of a patient in his 50s.	

Rewriting Prompts to Reduce Bias with FAIR	
Original prompt: Create an image of a group of friends using AI tools Rewrite prompt:	

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 (40 to 45) enjoying their meals at the Singapore hawker center, everyone smiling and their hands waving at the camera, each person has one head, two arms, and five fingers clearly visible on each hand, natural proportions, ultra-realistic photo."

Learning Activity 7 – STORY FRAMEWORK - Image-to-Video with Google Labs – Flow

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, file, 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 #1 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 3D cartoon of 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. He speaks in english: "Hey there little buddy, are you lost?"
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 He then ends off by saying : "Come, let's bring you back."
Yield Creativity Combine elements Add a magical twist at the end: creatively for originality	glowing sparkles and heart shaped elements slowly appear around them as the boy hugs the dog.

Example #2 of STORY framework in Google FLOW (Time-coded Prompt)

Scenario: A boy finds a lost dog at the beach

Subject & Setting Define the main character(s) and environment	A chubby 1-year-old Chinese toddler working behind the counter of a traditional Singapore kopitiam. The toddler has messy black hair, rosy cheeks and big dark eyes, wearing a forest-green apron over a cream floral singlet. The counter has traditional kopi cups, sugar pot, iced kopi and roasted coffee beans, with kettles, jars, wall fan and a red-and-cream menu board behind.
Theme / Tone Decide the mood or emotional tone	Photorealistic, warm, nostalgic, local Singapore kopitiam atmosphere with deadpan comedy and satire.
Obstacles / Action What is happening? What's the story?	0–4s: Toddler smiles brightly at camera and enthusiastically says: "Hello boss! Kopi O, kopi C, teh siew dai, I make for you okay!" 4–6.5s: Stops smiling and slowly side-eyes an unseen customer off-screen left, silently judging. 6.5–8.5s: Looks back at camera with lips pressed flat, completely unimpressed. 8.5–9.3s: Deadpan: "Oat milk? Go café lah." 9.3–10s: Holds the expression and gives one tiny unimpressed blink.
Recording Angle From what camera angle should the scene be recorded?	Vertical 9:16, static eye-level medium shot. Camera stays completely fixed. No pan, tilt, zoom, dolly, tracking, cuts or angle changes.
Yield Creativity Combine elements creatively for originality	Soft natural daylight, warm slightly muted colours, realistic kopitiam textures, subtle cups clinking and distant chatter, expressive facial acting, natural baby voice with Singaporean accent. No on-screen text, subtitles or logos.

Draft your prompt with the STORY framework below

Subject & Setting Define the main character(s) and environment	a 3d cartoon of a young boy cycling alone at a park during golden hour
Theme / Tone Decide the mood or emotional tone	calm, hopeful, warm and emotional
Obstacles / Action What is happening? What's the story?	He notices a lost cat near the cycling track, approaches slowly, then comforts it. He speaks in english: "Hey there little buddy, are you lost?"
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 cycle slowly and getting off beside the cat He then ends off by saying : "Come, let's bring you back."
Yield Creativity Combine elements creatively for originality	Add a magical twist at the end: flying butterflies and heart shaped elements slowly appear around them as the boy pick up the cat

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

SKILLS DEVELOPMENT ACADEMY

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.)	Modern rock ballad with light indie influences
Overall Mood / Emotion What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious,energetic)	romantic, yearning, missing
Use of Instruments Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.)	piano, guitar
Narrative Tempo / Rhythm How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.)	slow tempo with strong chorus
Details on Vocals / Lyrics Do you want lyrics or just instrumental? If	Male vocal, simple lyrics in malay about love, missing love ones, yearning, unsettle feelings, hoping for 2nd chance

lyrics, what theme?	

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	*Create a photorealistic image of a cashier at a Singapore hawker centre during lunchtime.*	

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	*CREATE AN IMAGE OF A GROUP OF BAND MEMBERS (DO NOT RESEMBLE ANY SINGERS OR ARTIST) ARGUING WITH EACH OTHER BEHIND THE CONCERT BACKSTAGE.*	