

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.P
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

Example of SCENE FRAMEWORK below

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

Subject Clearly describing who or what the main focus of your image is.	An asian chinese man in his 20s with athletic looking body
Context Describe the setting and environment where your subject is	at a Basketball court near to a HDB residential block in Singapore
Emotion Define the mood and atmosphere you want the image to convey	perspiring and yet focus in his basketball
Narrative Explain what is happening in the scene or what the subject is doing	aiming and throwing a basketball at the basketball net
Effect Portrait, Travel, Street, Choose the visual style or final look of the image	Portrait photography style, hyper real, 8k, 16:9

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 Methodology 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 Methodology below

Scenario: A family walking by Marina Bay Sands

Depth of Field Shallow vs deep depth of field	Deep depth of field, a family of an asian man and an asian wife holding hand of their 4 years old boy and 5 years old girl , walking by Marina Bay Sands
Angle Camera point of view: eye-level, low, high, aerial	Eye-level angle shot
Range of Exposure Balance exposure / Overexposed	balanced exposure for a bright sunny day
Type of Shot Close-up, mid-shot, wide shot	wide angle shot showing the beach and building of Marina Bay Sands
Source of Light Lighting style: natural, moody, soft, dramatic	Natural lighting with soft mood

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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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 Prompt Building Pyramid (SCENE+ DARTS+ ADD)

Choose 1 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 (selected this)

Refine the prompts using the template below

Add Subjects / Objects Introduce new characters, animals, or objects.	Add a clown blowing a small trumpet, standing in middle of the classroom
Describe Details Specify appearance, features, or actions of added elements.	The clown is wearing a blue,red and white strip clown costume with a bright coloured hat
Define Placement and Interaction Position new elements within the scene and describe interactions with existing subjects.	Position the clown behind the second row of table in the classroom in realistic and proportional to image

Learning Activity 4 - Digital Mood Board Creation

Choose 1 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)

Create 4 images with Nano Banana based on your chosen theme.

Combine these 4 images into a single digital mood board as a collage of 4 images.

Share your mood board with the class.

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 to 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 nurses, both males and females, with different ethnicities and ages (30 to 60) working in a hospital



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 friends, both males and females, with different ethnicities and ages (30 to 60) 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, both males and females, with different ethnicities and ages(30 -50) 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 on each hand clearly visible, natural proportions, ultra-realistic photo, 8K, 16:9."

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

Subject & Setting Define the main character(s) and environment	A young office worker carrying a laptop bag at a busy Singapore bus stop during heavy rain
Theme / Tone Decide the mood or emotional tone	Urgent, slightly comedic, relatable everyday chaos
Obstacles / Action What is happening? What's the story?	She sees her bus arriving, struggles with an umbrella, then runs toward it while trying not to drop her bag
Recording Angle From what camera angle should the scene be recorded?	High-angle wide shot with a slight dolly in, showing the rainy bus stop, arriving bus, and her chaotic run more clearly
Yield Creativity Combine elements creatively for originality	Use a dream-sequence twist where glowing neon signs and origami shapes appear around her as she runs, realistic cinematic style.

Draft your prompt with the STORY Methodology below

Subject & Setting Define the main character(s) and environment	A young man in his 20s is having a cup of coffee at a cafe located in Geylang area in Singapore. The coffeshop has a few stalls selling other food and drinks, near to road side and is at 1st storey of a shophouse
Theme / Tone Decide the mood or emotional tone	Quiet, calm and breezy
Obstacles / Action What is happening? What's the story?	A group of three men and two young beautiful females walk into coffeshop and sit near to him. An argument happens, a fight begins in the group and cups and drinks are flown. Two police officers come and the group start to flee
Recording Angle From what camera angle should the scene be recorded?	Eye-level with full-body and wide angle shot showing how the group fight and argue and the appearance of two police officers walking towards the group
Yield Creativity Combine elements creatively for originality	Use a dream-sequence twist with neons light setting in area , with exposed lighting around the place in a realistic cinematic style

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 Methodology below

Style / Genre What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.)	Canto pop with light R&B , light jazz 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, electric guitar , bass, electric piano and electronic effects
Narrative Tempo / Rhythm How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.)	Slow-Mid-to-upbeat tempo with a catchy groove and strong chorus with gentle rise
Details on Vocals / Lyrics Do you want lyrics	

or just instrumental? If lyrics, what theme?

Female Cantonese vocal, simple catchy lyrics about warm human relationship, late-night outings and enjoying everyday moments in Singapore

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: Create an image of Prime Minister Lawrence Wong Shaking hands with Donald Trump at a Singapore Tech Summit, both of them are looking tense and emotionless

	Description	
Check originality	Is the image idea an original creation?	Yes (own idea/creation)
Language sensitivity	Does the prompt treat people fairly, without stereotypes about race, gender, age, or culture?	No (mis-rep)
Ethical references	Does the prompt copy an existing artwork, style, or photo without giving credit?	No(No source/evidence)
Appropriate themes	Could this image idea make people uncomfortable, or include discrimination, hate, harm, or sexual content?	Yes (false event)
Respect boundaries	Does the prompt remove the real people's names or faces, or single out a race or group?	No (real name not removed)
Rewritten Prompt using CLEAR framework	Create an image of two world leader/politicians (Do not resemble any public figure) at a Conference, both of them are looking tense and emotionless	