

AI Content Creation for Productivity

LEARNING ACTIVITY 1: Image Generation with SCENE

SCENE Framework for Image Generation



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

Follow the steps in the next slides to:

- Draft your prompt with the SCENE Framework based on any of the below subjects:
 - Basketball
 - House
 - Man / Woman / Child
 - Food
 - Fruit

Generate images with Nano Banana

Share your creations with the rest of the class

You may choose to do any one (1) of the following:

Topic: **Basketball**

Subject (Clearly describing who or what the main focus of your image is):	A black male in his twenties playing basketball
Context (Describe the setting and environment where your subject is):	The man is playing basketball in the basketball court in Jurong HDB area.
Emotion (Define the mood and atmosphere you want the image to convey):	The man feeling angsty and exhilarating.
Narrative (Explain what is happening in the scene or what the subject is doing):	The man is jumping up in the air to do a slam dunk.
Effect (Choose the visual style or final look of the image):	In the style of sports photography.

Topic: **House**

Subject (Clearly describing who or what the main focus of your image is):	A little country house.
Context (Describe the setting and environment where your subject is):	The house is Surrounded by garden with beautiful flowers.
Emotion (Define the mood and atmosphere you want the image to convey):	The house is quiet and warm
Narrative (Explain what is happening in the scene or what the subject is doing):	The house is inviting and homely
Effect (Choose the visual style or final look of the image):	Quiet place surrounded by nature.

Topic: **Man / Woman / Child**

Subject (Clearly describing who or what the main focus of your image is):	A cute and beautiful 3 year old Malay girl.
Context (Describe the setting and environment where your subject is):	In the home garden full of beautiful flowers.
Emotion (Define the mood and atmosphere you want the image to convey):	Happy, joyful and feeling of security
Narrative (Explain what is happening in the scene or what the subject is doing):	The girl chasing colourful butterflies with joy.

Effect (Choose the visual style or final look of the image):	Set in the beautiful evening before sunset.
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Topic: **Food**

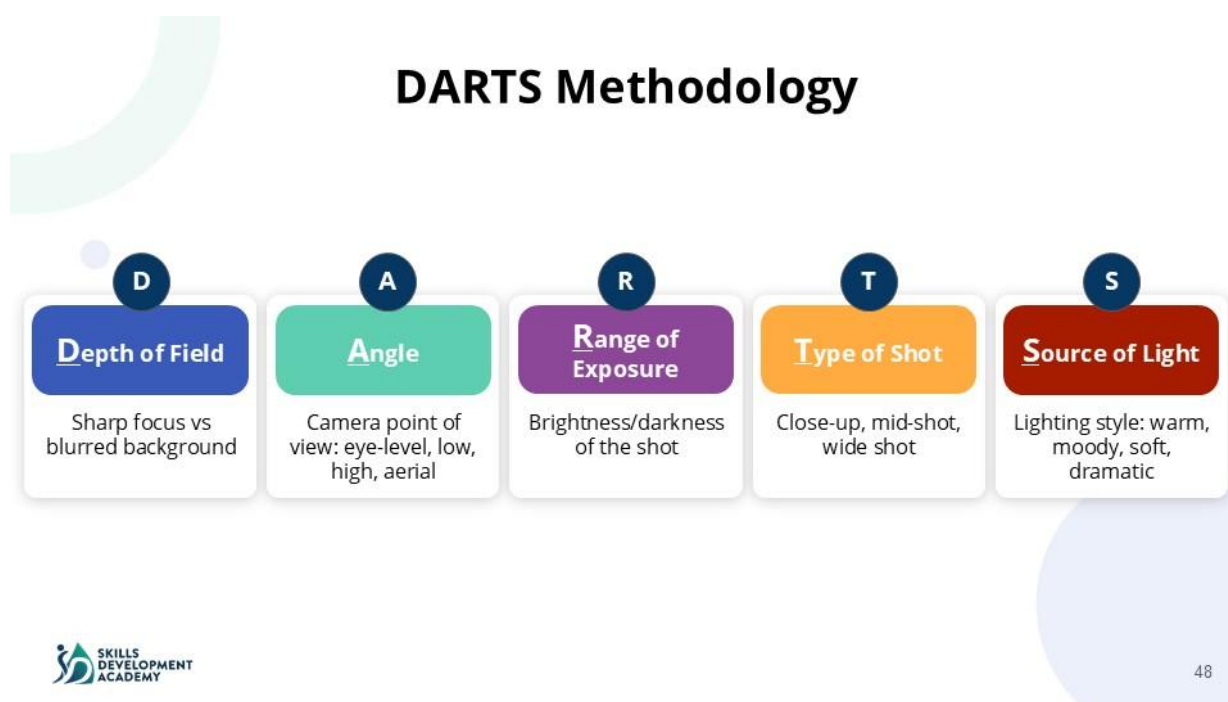
Subject (Clearly describing who or what the main focus of your image is):	
Context (Describe the setting and environment where your subject is):	
Emotion (Define the mood and atmosphere you want the image to convey):	
Narrative (Explain what is happening in the scene or what the subject is doing):	
Effect (Choose the visual style or final look of the image):	

Topic: **Fruit**

Subject (Clearly describing who or what the main focus of your image is):	
Context (Describe the setting and environment where your subject is):	
Emotion (Define the mood and atmosphere you want the image to convey):	

Narrative (Explain what is happening in the scene or what the subject is doing):	
Effect (Choose the visual style or final look of the image):	

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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Follow the steps in the next slides to:

- Draft your prompt with the DARTS Methodology
- Generate images with Nano Banana

Share your creations with the rest of the class

Depth of Field	Shallow DoF, the man playing basketball is sharp, the background is blur with soft bokeh
Angle	Low angle
Range of Exposure	Balanced exposure
Type of Shot	American shot
Source of Light	Warm natural golden hour
Final Prompt:	

LEARNING ACTIVITY 3: Putting it All Together

Prompt Refinement with ADD



Inspiration Bank

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

Use the Prompt Building Pyramid (SCENE + DARTS + ADD)

- Generate images based on any of the themes below in Nano Banana:
 - Family holiday
 - Festive celebration

- Serious meeting at work
- Picnic with friends and pets

You may choose to do any one (1) of the following:

Share your creations with the rest of the class

Topic: Family Holiday

Step 1: SCENE Framework (Family holiday)

Subject (Clearly describing who or what the main focus of your image is):	A malay family of 7. The mother, father, 2 daughters age 24 & 25, 3 sons age 32, 28, 21.
Context (Describe the setting and environment where your subject is):	They are on holiday in Switzerland.
Emotion (Define the mood and atmosphere you want the image to convey):	They are feeling happy, excited of being together.
Narrative (Explain what is happening in the scene or what the subject is doing):	They are enjoying the beauty of the scenery, the waterfalls, mountains, flowers.
Effect (Choose the visual style or final look of the image):	In the style of landscape photography.

Step2: DARTS Framework (Family holiday)

<u>D</u>epth of Field	Sharp focus to capture the whole family as well as the beautiful landscape.
<u>A</u>ngle	eye-level and slightly wide-angle view.
<u>R</u>ange of Exposure	Balanced exposure with a wide dynamic range.
<u>T</u>ype of Shot	Wide shots showing the landscape.

<u>Source of Light</u>	Natural soft, warm daylight preferably during the golden hour.
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Step3: Add Framework (Family holiday)

<u>Add Subjects/ Objects</u> (Introduce new characters, animals or objects):	Add cow.
<u>Describe Details</u> (Specify appearance, features, or actions of added elements):	The cow is black and white in colour.
<u>Define Placement and Interaction</u> (Position new elements within the scene and describe interactions with existing subjects):	The cow eating grass in the field

Final Prompt

Step 1: SCENE Framework (Festive celebration)

<u>Subject</u> (Clearly describing who or what the main focus of your image is):	A Malay family held an open house for Hari Raya Aidil Fitri with family and friends, all dressed in traditional Malay attire.
<u>Context</u> (Describe the setting and environment where your subject is):	Warm home decorated with ketupat and chasing lights.
<u>Emotion</u> (Define the mood and atmosphere you want the image to convey):	Joyful, welcoming, laughter
<u>Narrative</u> (Explain what is happening in the scene or what the subject is doing):	Some are chatting, some greeting guests, some

Effect (Choose the visual style or final look of the image):	
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Step2: DARTS Framework (Festive celebration)

<u>D</u>epth of Field	
<u>A</u>ngle	
<u>R</u>ange of Exposure	
<u>T</u>ype of Shot	
<u>S</u>ource of Light	

Step3: Add Framework (Festive celebration)

<u>A</u>dd Subjects/ Objects (Introduce new characters, animals or objects):	
<u>D</u>escribe Details (Specify appearance, features, or actions of added elements):	
<u>D</u>efine Placement and Interaction (Position new elements within the scene and describe interactions with existing subjects):	

Final Prompt

Step 1: SCENE Framework (Serious meeting at work)

Subject (Clearly describing who or what the main focus of your image is):	
Context (Describe the setting and environment where your subject is):	
Emotion (Define the mood and atmosphere you want the image to convey):	
Narrative (Explain what is happening in the scene or what the subject is doing):	
Effect (Choose the visual style or final look of the image):	

Step2: DARTS Framework (Serious meeting at work)

<u>D</u>epth of Field	
<u>A</u>ngle	
<u>R</u>ange of Exposure	
<u>T</u>ype of Shot	
<u>S</u>ource of Light	

Step3: Add Framework (Serious meeting at work)

<u>A</u>dd Subjects/ Objects (Introduce new characters, animals or objects):	
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<u>D</u>escribe Details (Specify appearance, features, or actions of added elements):	
<u>D</u>efine Placement and Interaction (Position new elements within the scene and describe interactions with existing subjects):	

Final Prompt

Step 1: SCENE Framework (Picnic with friends and pets)

Subject (Clearly describing who or what the main focus of your image is):	A group of 10 friends of mix race (Chinese, Malay and Indians) having a picnic.
Context (Describe the setting and environment where your subject is):	They are having their picnic at the Botanical garden, Singapore.
Emotion (Define the mood and atmosphere you want the image to convey):	They are feeling happy and cheerful
Narrative (Explain what is happening in the scene or what the subject is doing):	The group of friends are socialising and some of them are playing frisbees and some are sleeping.
Effect (Choose the visual style or final look of the image):	In the style of landscape photography.

Step2: DARTS Framework (Picnic with friends and pets)

<u>D</u>epth of Field	Shallow DoF, the group of friends looks sharp while the background is blurred.
<u>A</u>ngle	The image is taken at a high angle.

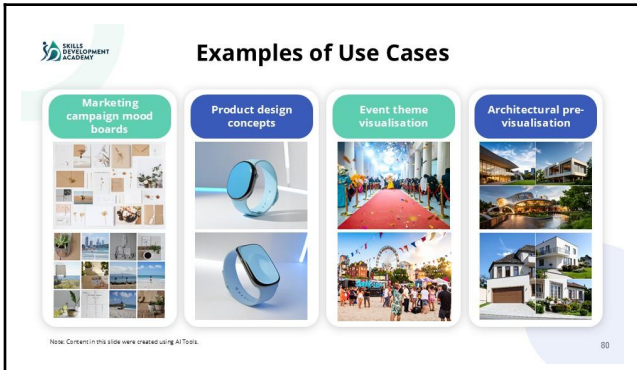
Range of Exposure	Balance exposure.
Type of Shot	Wide shot
Source of Light	Natural sunlight

Step3: Add Framework (Picnic with friends and pets)

Add Subjects/ Objects (Introduce new characters, animals or objects):	Add a slug.
Describe Details (Specify appearance, features, or actions of added elements):	The slug is red in colour.
Define Placement and Interaction (Position new elements within the scene and describe interactions with existing subjects):	The slug is on one of their shoulders.

Final Prompt

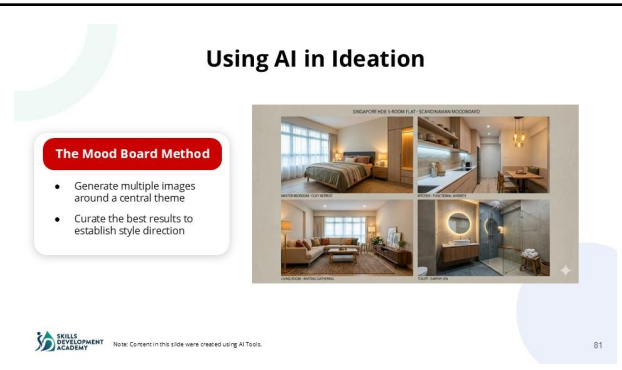
LEARNING ACTIVITY 4: Digital Mood Board Creation



Examples of Use Cases

- Marketing campaign mood boards
- Product design concepts
- Event theme visualisation
- Architectural pre-visualisation

Note: Content in this slide were created using AI Tools.



Using AI in Ideation

The Mood Board Method

- Generate multiple images around a central theme
- Curate the best results to establish style direction

Note: Content in this slide were created using AI Tools.



Choose 1 of the following themes:

- Interior Design for Corporate IT office
- Interior Design for Retail Shop (Fashion, Hair Salon, Sport Bike etc)
- Product Design Concept for Jacket (Fashion, Sport, Casual etc)
- Product Design Concept for Tumbler (Sports, Travel, eco- friendly etc)

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.

Topic: Interior Design for CorporateIT Office

Prompt

Topic: Interior Design for Retail Shop (Fashion, Hair Salon, Sport Bike etc)

Prompt
Generate a digital mood board with 4 images for the following scenario : Ducati Sport Bike

Topic:Product Design Concept for Jacket (Fashion, Sport, Casual etc)

Prompt

Topic:Product Design Concept for Tumbler (Sports, Travel, eco- friendly etc)

Prompt

LEARNING ACTIVITY 5: Rewriting Prompts to Reduce Bias with FAIR

Rewriting Prompts to Reduce Bias with FAIR

FAIR Framework		Example
Frame Inclusively	Reframe the prompt so it reflects diversity in culture, gender, age, and body type.	Instead of “a businessman shaking hands”, write “a diverse group of professionals (men and women, different ethnicities, young and senior) shaking hands in an office.”
Add Specific Context	Insert details about location, attire, or environment that reflect realistic settings.	Instead of “a family having dinner”, write “a multigenerational family of different ages sharing a meal in a modern Singapore HDB dining room.”
Include Balance	Balance representation so no single group dominates unless context requires.	Instead of “a model on a runway”, write “models of varied body types, genders, and ethnicities walking on a fashion runway.”
Review & Refine	Check the draft output. If biased, refine with corrective descriptors.	If the AI defaults to “young white male doctor,” refine with: “a team of doctors including women and men of diverse ethnic backgrounds, different ages, in a hospital setting.”

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

Learning Activity 5

Rewriting Prompts to Reduce Bias with Fair



Original Prompt: A team of software developers working in modern tech office.

Rewritten Prompt:

Note: Content in this slide were created using AI Tools.

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Rewritten Prompt

Create an image of a team of software developers of mixed races (Chinese, Indians, Malay and Eurasians), genders, aged (from aged 19 to 60s) and different body types working in a modern tech office in Singapore.

Learning Activity 5

Rewriting Prompts to Reduce Bias with Fair



Original Prompt: Create an image of a couple running along the pavement at East Coast Park.

Rewritten Prompt:

Note: Content in this slide were created using AI Tools.

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Rewritten Prompt

Create an image of a Malay couple of late 50s slow run along the pavement of East Coast park.

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 to fix the issues

Learning Activity 6



Rewritten Prompt:

Note: Content in this slide were created using AI Tools.

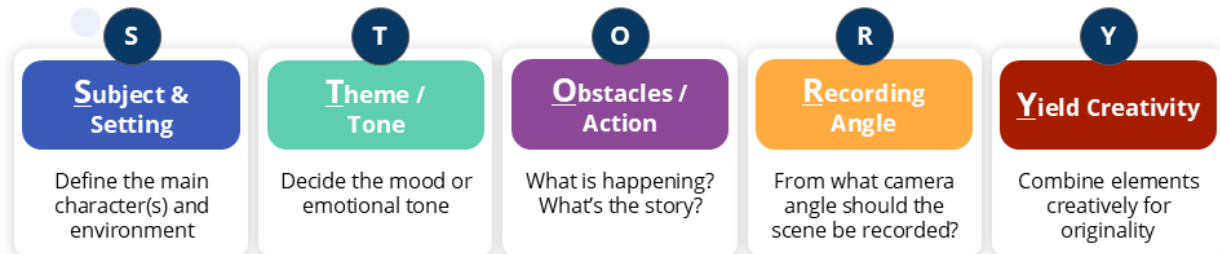
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Rewritten Prompt

A happy group of friends enjoying their meals at the Singapore hawker center, everyone smiling and their hands waving at the camera, an ultra-realistic photo. Everyone has 1 head, 2 arms and 10 fingers in a clearly visible, ultra realistic photo.

LEARNING ACTIVITY 7: Image-to-Video with Google Labs - Flow

Creative Storytelling with STORY



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

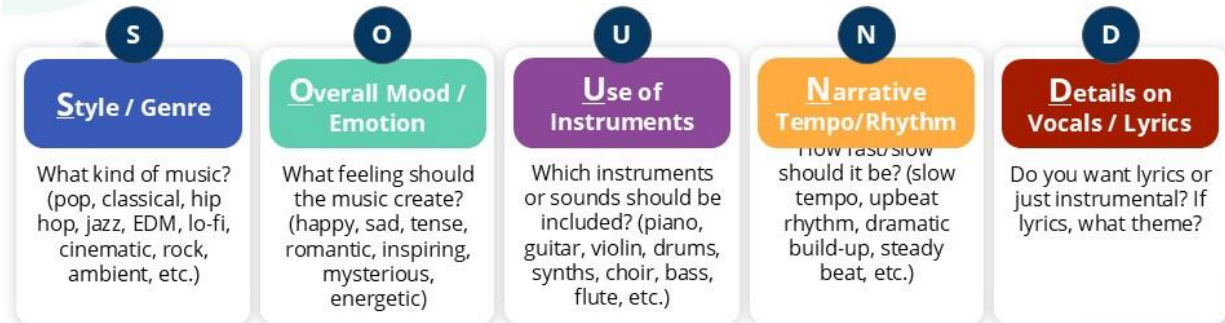
Follow instructions in the next slide to animate your image using Flow

Share your creation with the rest of the class

Creative Storytelling with STORY	
Subject & Setting (Define the main character(s) and environment)	A group of 10 friends of mixed race (Chinese, Malay and Indians) having a picnic at Botanical Garden, Singapore.
Theme / tone (Decide the mood or emotional tone)	They are all feeling happy.
Obstacles / Action (What is happening? What's the story?)	Some of them were sleeping, some of them were playing frisbee and some of them were chatting.
Recording Angle (From what camera angle should the scene be recorded)	Panoramic angle to a cinematic drone shot.
Yield Creativity (Combine elements creatively for originality)	The frisbee suddenly hit one of the friends that were sleeping and he wakes up and throw his friend up in the sky.
Final Prompt	

LEARNING ACTIVITY 8: Text-to-Music with Suno

SOUND Framework for Music Generation



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

Share your creations with the rest of the class

Genre: Ballad

Style / Genre (What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.))	
Overall Mood / Emotion (What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious, energetic))	
Use of Instruments (Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.))	
Narrative Tempo / Rhythm (How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.))	
Details on Vocals / Lyrics (Do you want lyrics or just instrumental? If lyrics, what theme?)	
Final Prompt	

Genre: Rock & Roll

Style / Genre (What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.))	
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Overall Mood / Emotion (What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious, energetic))	
Use of Instruments (Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.))	
Narrative Tempo / Rhythm (How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.))	
Details on Vocals / Lyrics (Do you want lyrics or just instrumental? If lyrics, what theme?)	
Final Prompt	

Genre: Hip Hop

Style / Genre (What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.))	
Overall Mood / Emotion (What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious, energetic))	
Use of Instruments (Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.))	
Narrative Tempo / Rhythm (How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.))	

Details on Vocals / Lyrics (Do you want lyrics or just instrumental? If lyrics, what theme?)	
Final Prompt	

Genre: R&B

Style / Genre (What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.))	R&B style
Overall Mood / Emotion (What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious, energetic))	Mysterious mood
Use of Instruments (Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.))	Keyboards, bass, drums and guitars
Narrative Tempo / Rhythm (How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.))	Upbeat tempo and rhythm
Details on Vocals / Lyrics (Do you want lyrics or just instrumental? If lyrics, what theme?)	Male and female singer singing about breaking up
Final Prompt	

Genre: Pop

Style / Genre (What kind of music? (pop, classical, hip hop, jazz, EDM, lo-fi, cinematic, rock, ambient, etc.))	
Overall Mood / Emotion (What feeling should the music create? (happy, sad, tense, romantic, inspiring, mysterious, energetic))	
Use of Instruments (Which instruments or sounds should be included? (piano, guitar, violin, drums, synths, choir, bass, flute, etc.))	
Narrative Tempo / Rhythm (How fast/slow should it be? (slow tempo, upbeat rhythm, dramatic buildup, steady beat, etc.))	
Details on Vocals / Lyrics (Do you want lyrics or just instrumental? If lyrics, what theme?)	
Final Prompt	

LEARNING ACTIVITY 9: Refining CLEAR Prompts

Choose 1 of the following prompts 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.

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

Prompt: *Create photorealistic image of a Indonesian farmer working under the hot sun in a paddy rice field with tattered clothes and a sad face.*

CLEAR Framework		Yes / No
Check originality	Is this image idea my own creation?	Yes
Language sensitivity	Does my prompt treat people fairly, without stereotypes about race, gender, age, or culture?	No
Ethical references	Am I copying 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	<i>Create photorealistic image of farmer working under the hot sun in a paddy rice field with tattered clothes and a sad face.</i>	

Prompt: *Make a hyper-realistic portrait of a group of young teenage girls in bikini playing volleyball at the East Coast beach.*

CLEAR Framework		Yes / No
Check originality	Is this image idea my own creation?	Yes
Language sensitivity	Does my prompt treat people fairly, without stereotypes about race, gender, age, or culture?	No
Ethical references	Am I copying 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	<i>Make a hyper-realistic portrait of a group of young teenage girls in sports attire playing volleyball at the East Coast beach.</i>	

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

CLEAR Framework		Yes / No
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Check originality	Is this image idea my own creation?	Yes
Language sensitivity	Does my prompt treat people fairly, without stereotypes about race, gender, age, or culture?	No
Ethical references	Am I copying 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	<i>An image of female band members arguing with each other behind the concert backstage.</i>	