

Collaborative Research and Development "Seed" Project: EE0518 Advancing Secondary Students' Literacy Skills through Promoting Interdisciplinary Learning in the English Classroom



English Language Education Section Curriculum Development Institute Education Bureau

Aim of the "Seed" Project

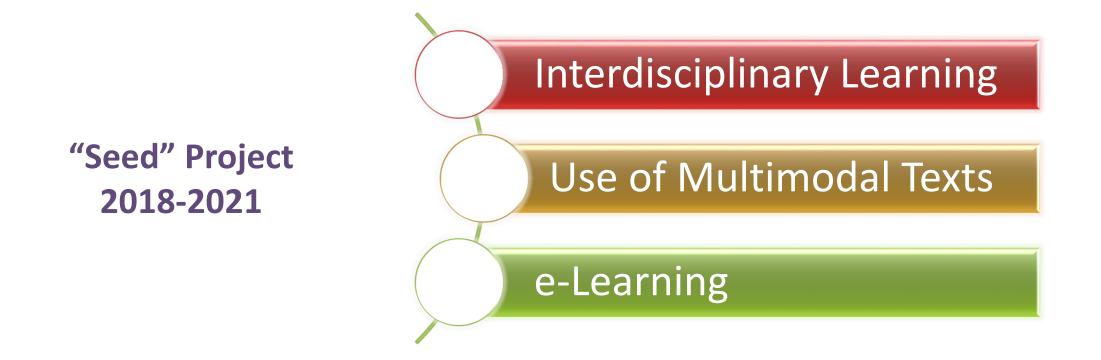
To enhance secondary students' literacy skills by connecting their learning experiences through promoting interdisciplinary learning in the English classroom.

Objectives of the "Seed" Project

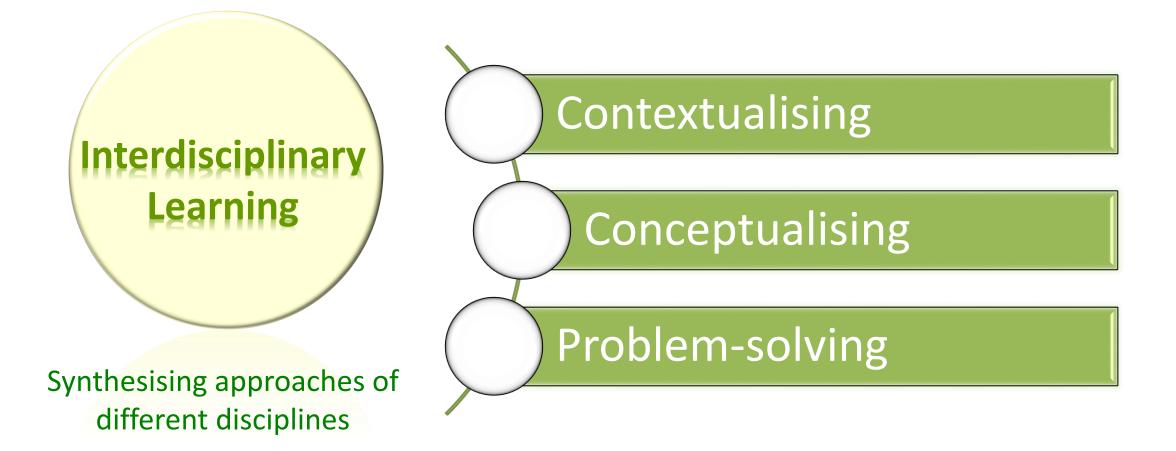
- To develop teachers' capacity in:
 - understanding the role of English Language teachers in promoting whole-school initiatives;
 - adopting effective teaching strategies to guide students to integrate, apply and transfer knowledge and skills across disciplines and other learning experiences; and

designing suitable learning, teaching and assessment activities to engage students in processing and producing texts to achieve different communication purposes across disciplines.

Focusses related to the Major Updates



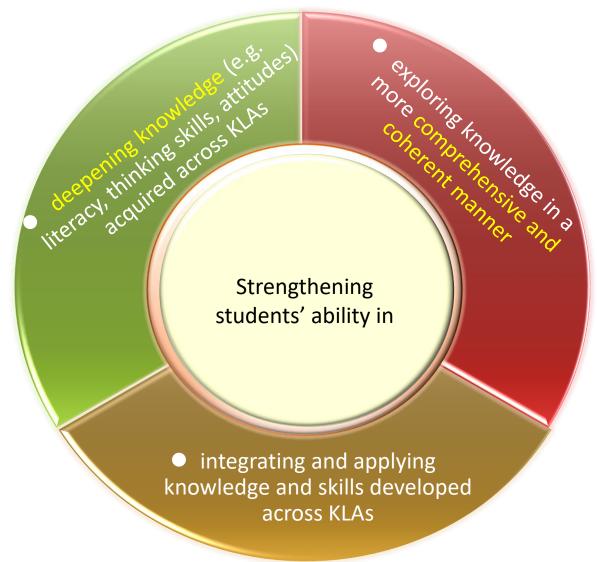
Promoting Interdisciplinary Learning in the English Classroom



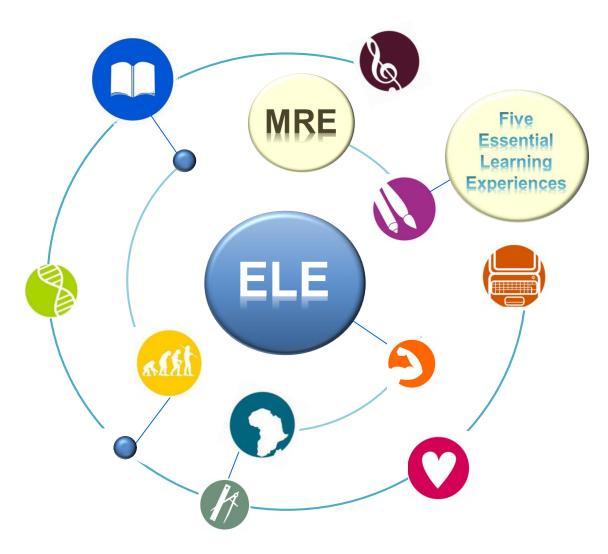
Adapted from

Svetlana, N. (2006) Interdisciplinary Teaching: Contextualizing Conceptualizing, and Problem-centring. *Journal of Curriculum Studies*. 38(3), 251-271.

Promoting Interdisciplinary Learning in the English Classroom



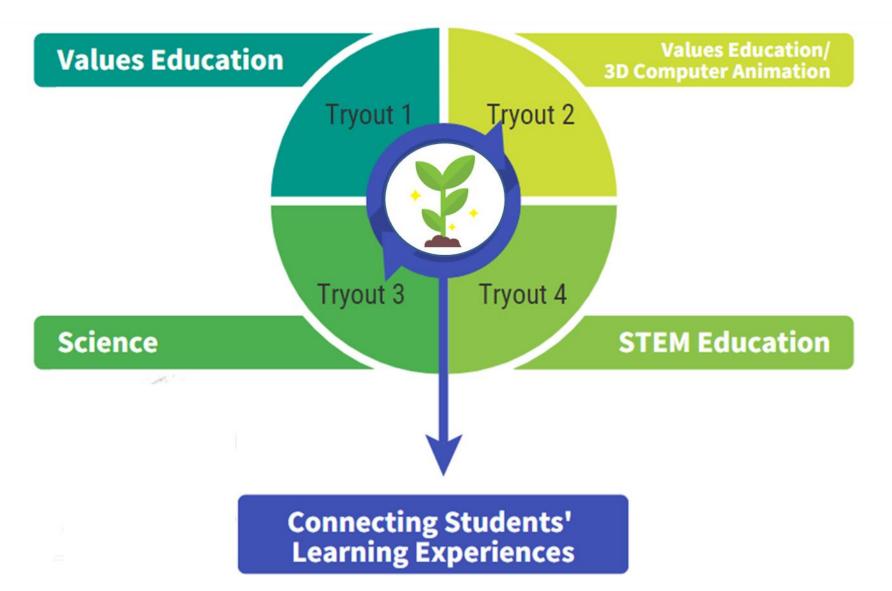
Promoting Interdisciplinary Learning in the English Classroom



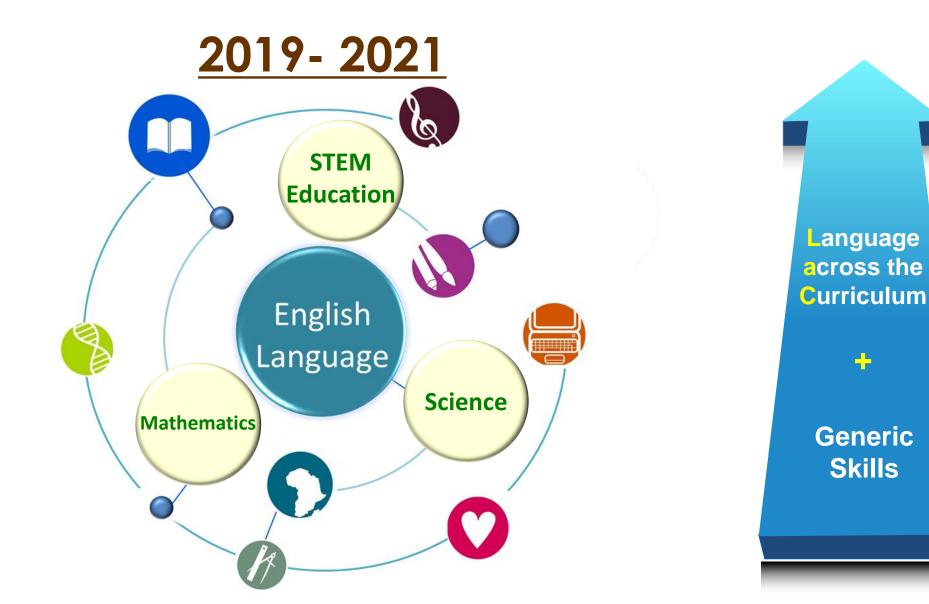
Strengthening the connection between English Language and various cross-curricular domains

"Seed" Project (2018/19 - 2020/21)

Cross-KLA Focuses

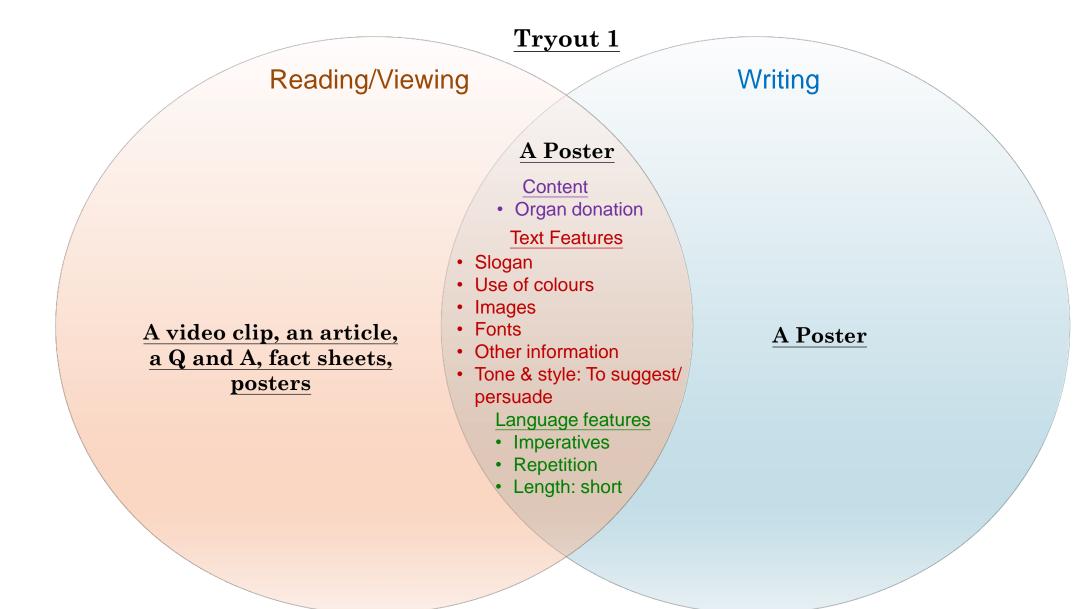


Integrating Cross-curricular Domains into the English Language Curriculum to Connect Students' Learning Experiences



Developing Students' Literacy Skills (Tryout 1)

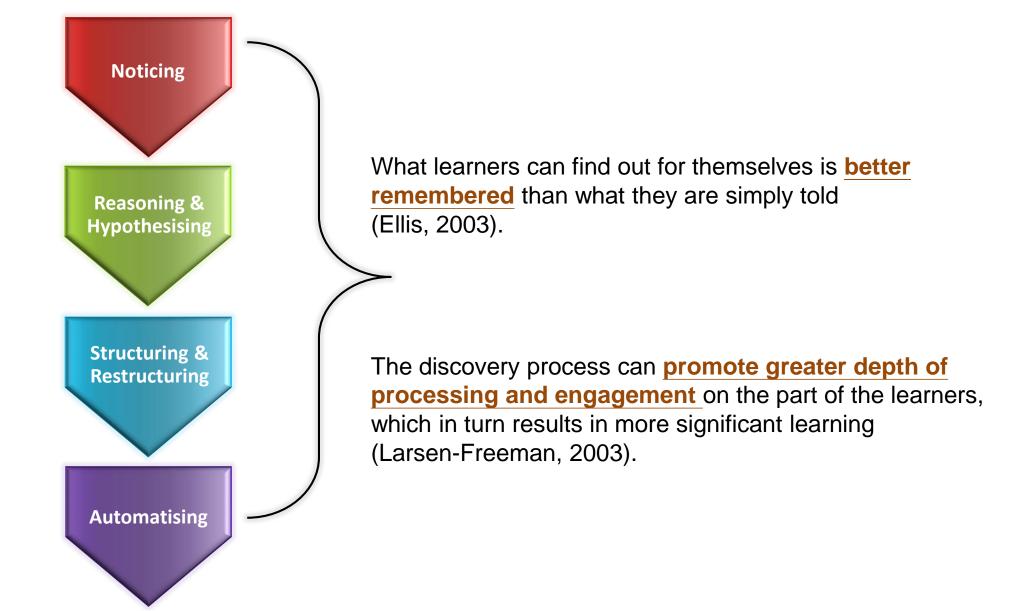
Connecting Reading and Writing



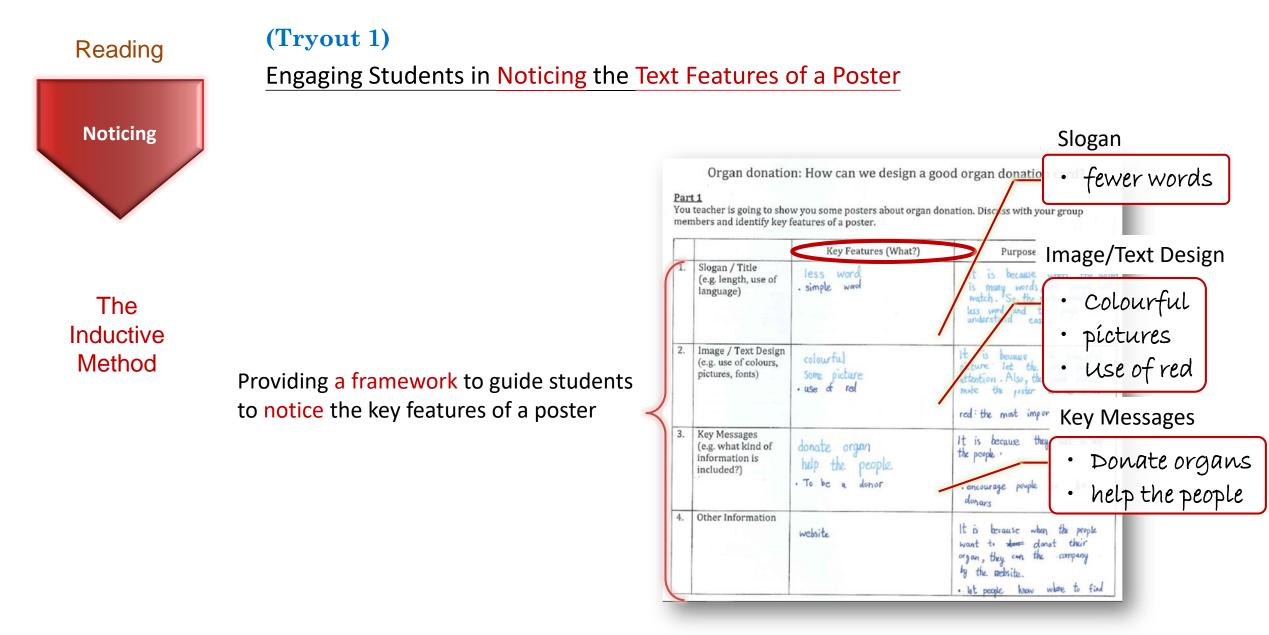
The

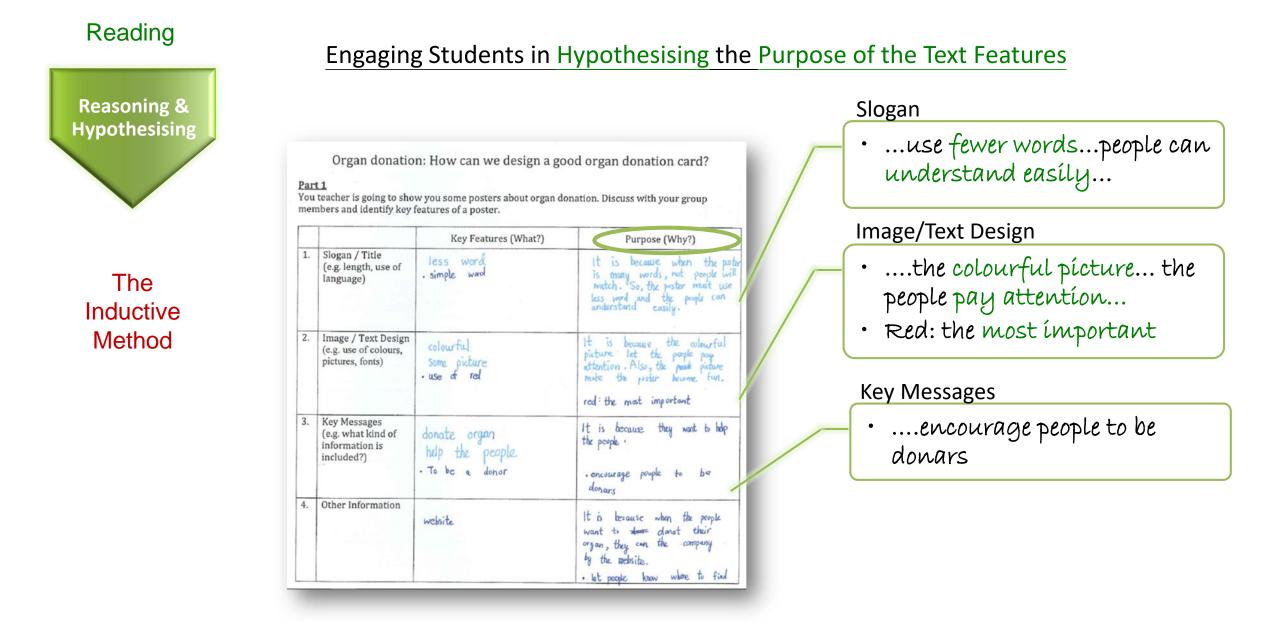
Inductive

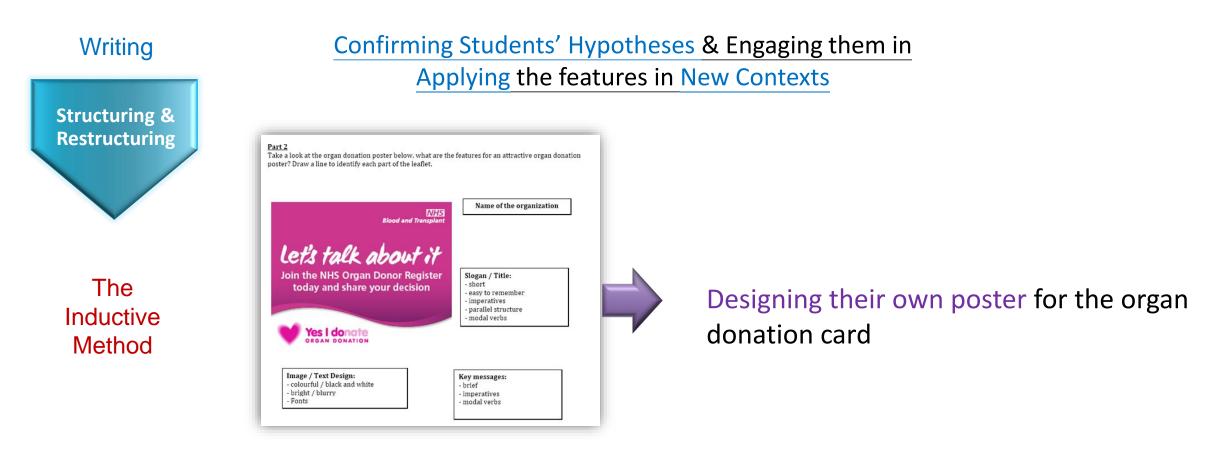
Method



Hedge, T. (2000) Teaching and learning in the language classroom . Oxford University Press.

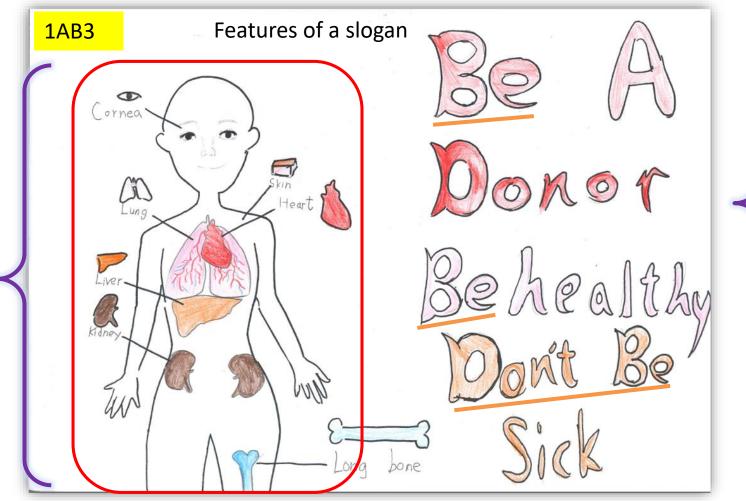


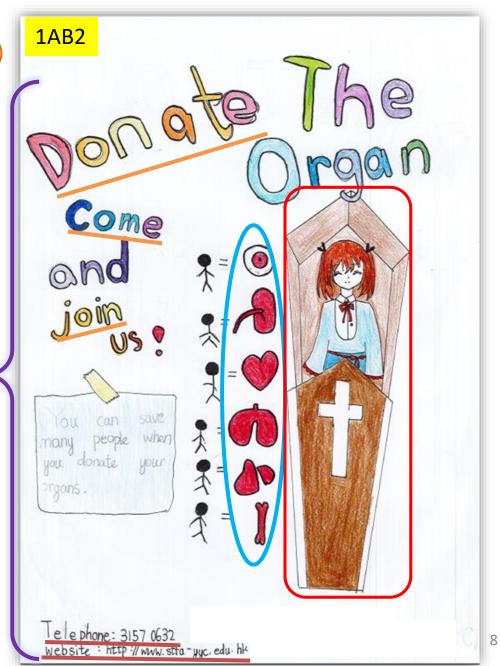




Consolidation of the text features

- Slogan (i.e. the use of imperative, repetition, short, easy to remember)
- Use of colours
- Images
- Texts (e.g. fonts)
- Other information (e.g. organisation name, contact information)





Learning Outcomes Demonstrated by Students

Presentation of their poster design to the class

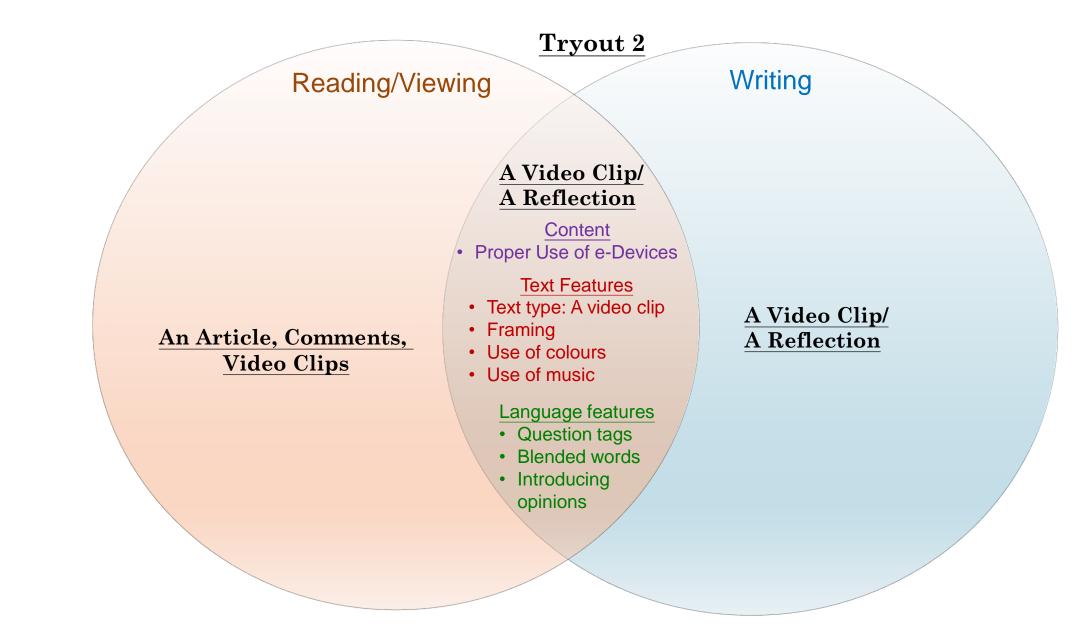
Peer Assessment

1AB2

		Please tick (1) as appropriate.								
	The students can	To be improved	Good	Very good				100 C		
А.	Features of a Poster	ro oc manored	0001	rery good	11					
1.)	write an attractive slogan/title.		2	0	11					
2.)	use images/texts to enhance the message of the poster.	RI		0		1	•	I líke that		
3.)	include key messages/information in the poster.		Ø		11			because their		
4.)	design a/an interesting/ attractive/ creative poster.		52					portax lago		
в.	. Speaking Skills						poster has			
1.)	pronounce most words correctly.		Ø					shown the		
2.)	present their work fluently.									
3.)	present their work in an interesting/ attractive/ creative way.	Ø			71			organs clearly, and it is easy t understand.		
4.)	present their work with elaborations.		[2]				and it is easy t			
5.)	maintain eye contact with the audience.			[2]						
6.)	speak at an appropriate volume.		20					understand.		
c.	What do you like about their poster/performance? I like that because their poster has dar understand.	v the organ <i>clea</i>		is easily to						

Developing Students' Literacy Skills (Tryout 2)

Connecting Reading and Writing

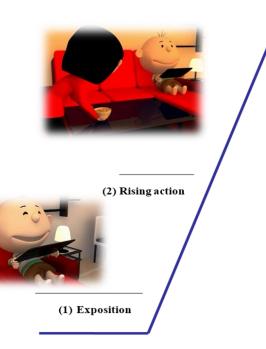


1 A	B3	A Character Map				
1)	Who are	the characters?	soh	man		
2)	What are story?	e they doing in the	he is playing with the ipad.	cooking the soup		
3)		the characters feel ginning of the	aligny	angry		
. 4)		the characters feel d of the story?	happy	happy		

A Plot Diagram



(3) Climax





(4) Falling action

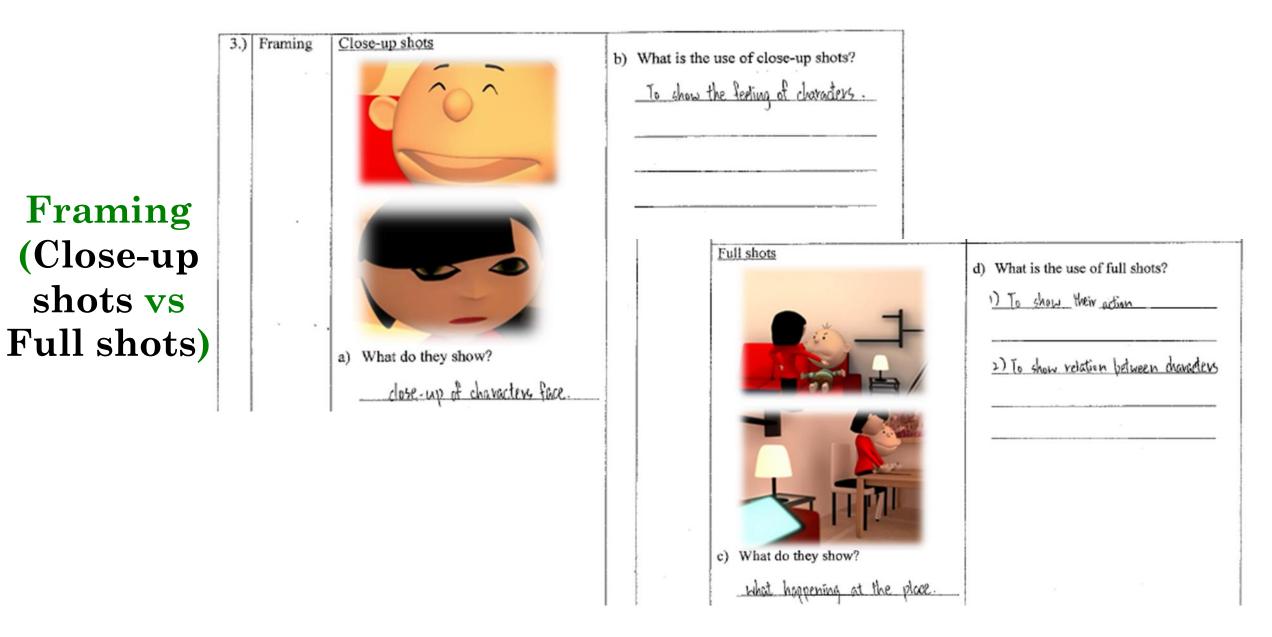


(5) Resolution

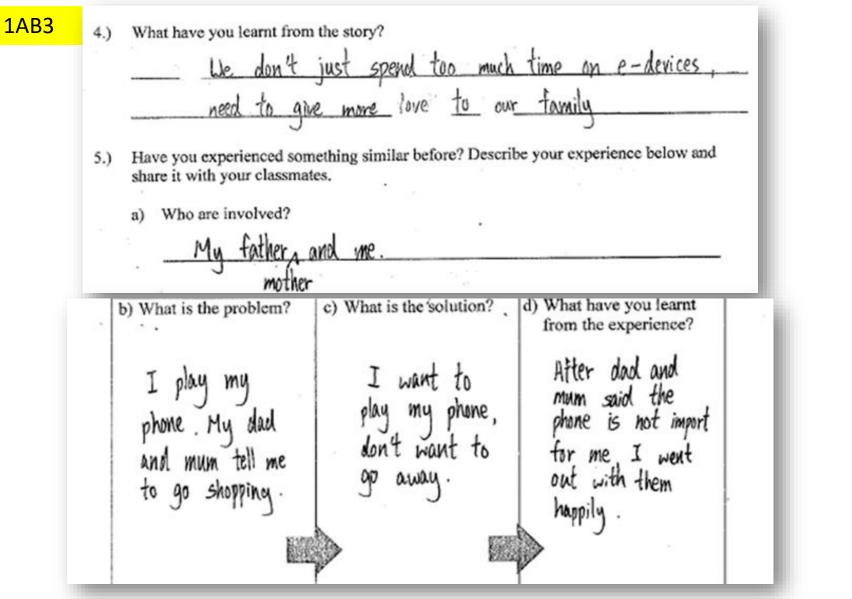
		Meaning
) Colour	How do you describe the colour of the following scenes?	What does the colour make you feel?
	Scene 1	Scene 1
		c)scaved, unhappy
	a) davk ; Scene 2	Scene 2
		d) happy. warm
	b) bright	

Use of Colours

Music / Sound Effects	2.)	Music / Sound effects	How would you describe the background music used in the clip? a) Tempo (i.e. the speed at which the music is played) <u>the speed is very slow (to moderate</u>) b) Volume of the music (e.g. loud, soft) <u>it is soft</u> .	What is the mood (i.e. the way it makes you feel) created by the background music?
-----------------------------	-----	-----------------------------	--	--



Exploring Values and Attitudes through Writing Reflections



Higher-order thinking skills

+

Positive values and attitudes

Exploring Values and Attitudes through Writing Reflections

1AB2	
After watching the clips, I learnitized some viewing skills and the importance of	-
family. I think I need to change my habit of using an e-device. I should use less	
surfing time for accessing the Internet. If I decrease the time of using e - devices, I will go	
It that in	Higher-order
to exercise and chat more with my family. There will be happies than, playing smartphone	skills
Please share what videos you are watching with your families.	-
You have used e-devices in some positive ways.	Positive value and attitudes

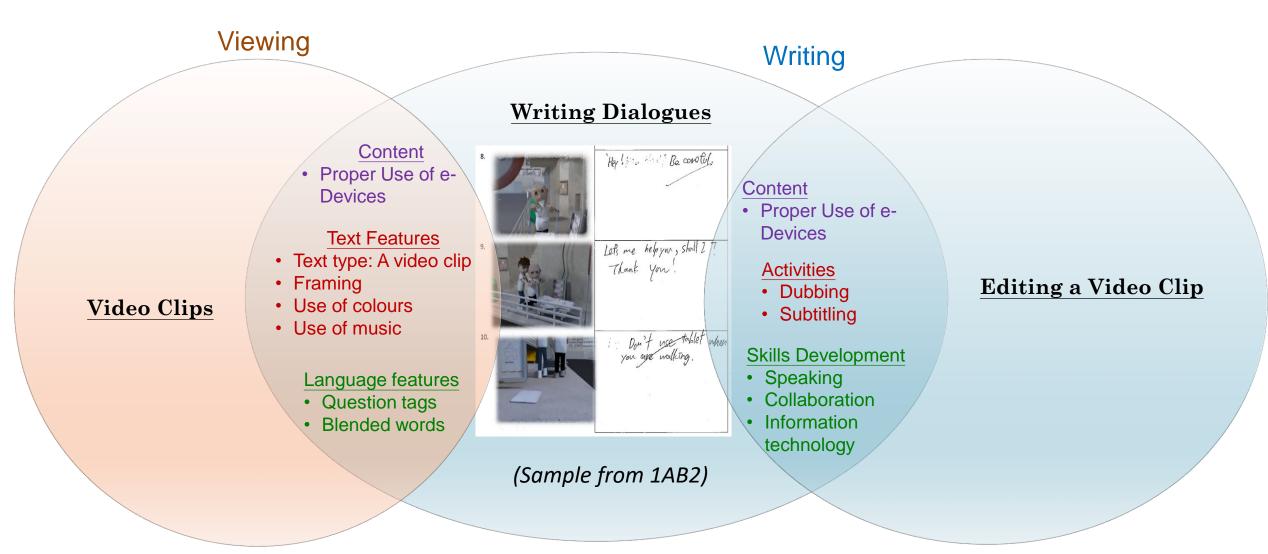
es

Exploring Values and Attitudes through Writing Reflections 1AB3 Watch Love and Because of lad' think we heed aside phone, tablet, computer and other not important things down he toucs on other things around our life on the Love video The boy just plays with doesn't about the soup for him. But he carentis mum. His mum cooked think we should not always use e devices, Relationship is lapsn' the somp. **Higher-order** thinking more important. decrease the time learn the importance of tamily. If Atter watching the clips, vill choose to catting with think triends. Inore wind **Positive values** important than games and attitudes friends are more important 233 Words) family and than gomes

skills

Extending & Consolidating Students' Learning Experience with the Use of Information Technology

Consolidating Students' Learning through Editing a Video Clip



Consolidating Students' Learning through Editing a Video Clip

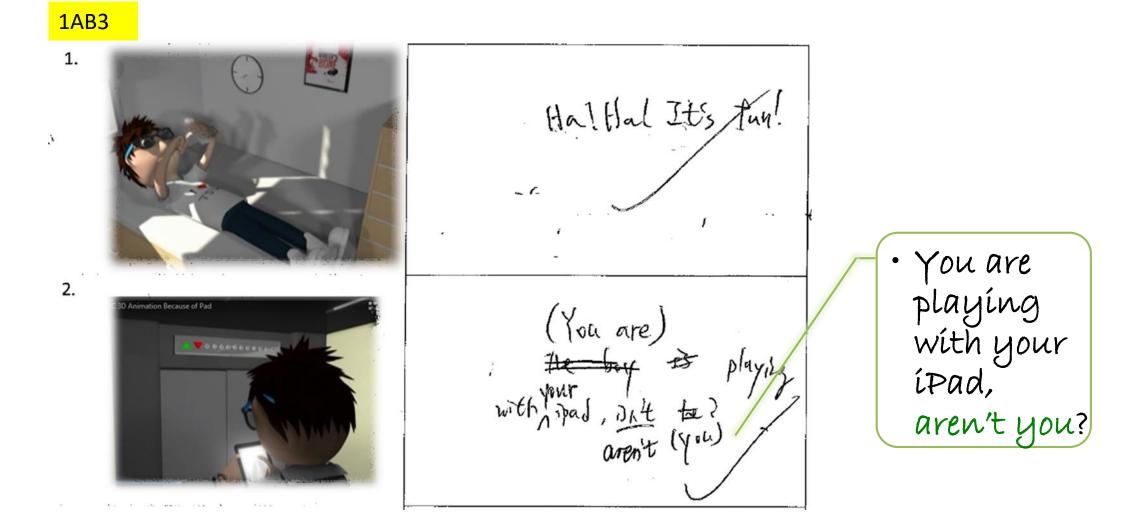
Applying Knowledge of Blended Words in Writing a New Title for the Clip

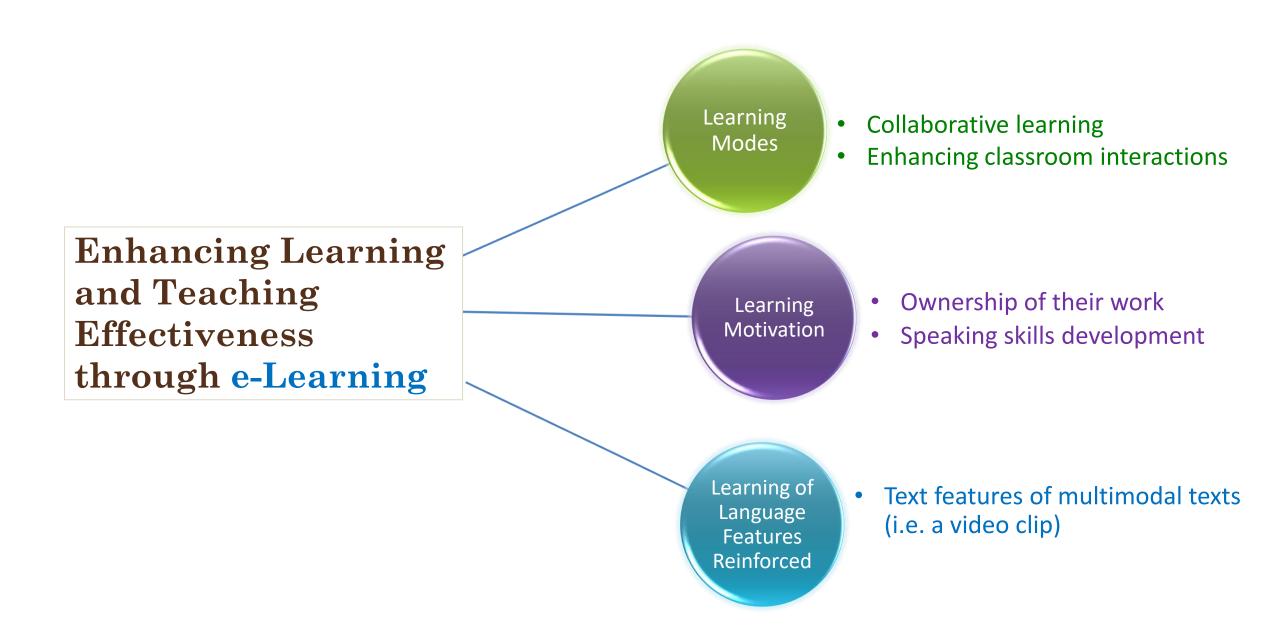
1AB2

Grammar focus Part 1: Title of the clip Blended words Work with a partner and give a new title for the video clip. Family warm Explain the meaning of the title below: It is a warm

Consolidating Students' Learning through Editing a Video Clip

Applying Knowledge of Question Tags in Writing the Dialogues





Promoting Interdisciplinary Learning in the English Classroom (Tryout 3)

Curriculum Framework of the Science Education KLA

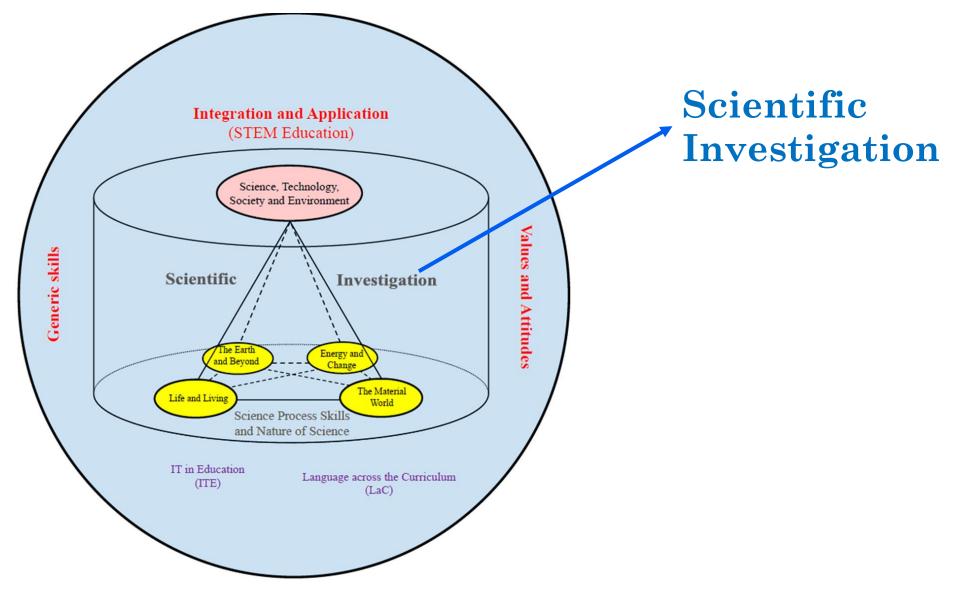
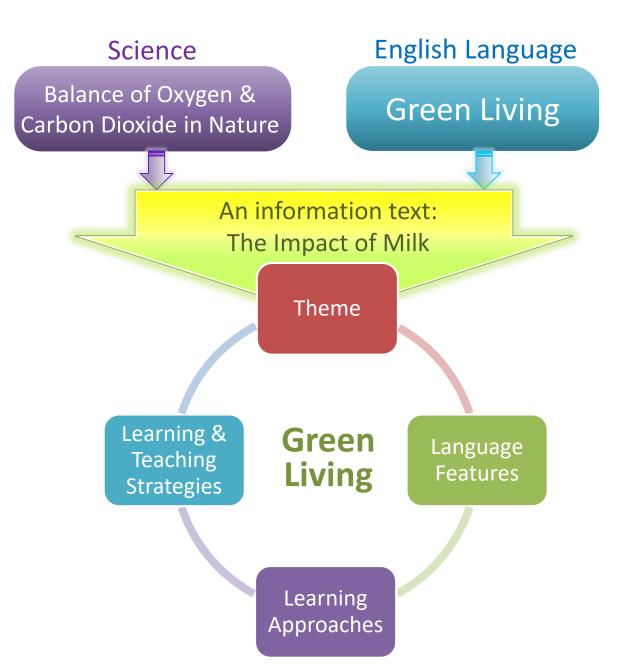


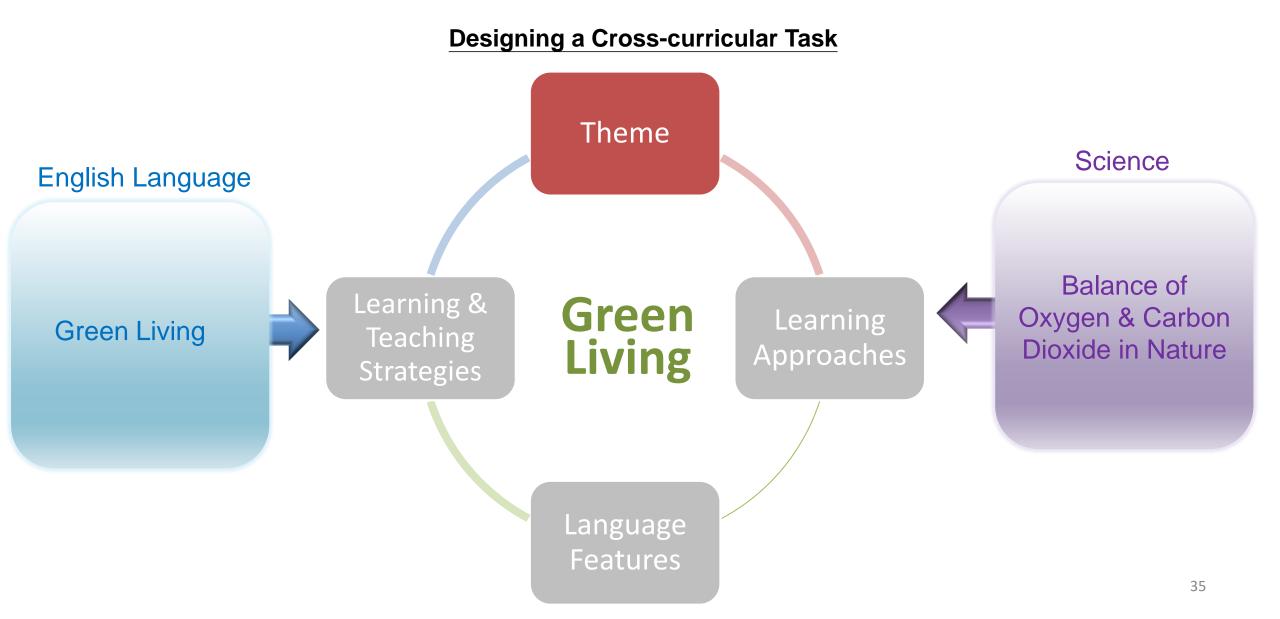
Figure 1 Diagrammatic Representation of the Science Education KLA Curriculum Framework

Connecting Students' Learning Experiences between English Language & Science

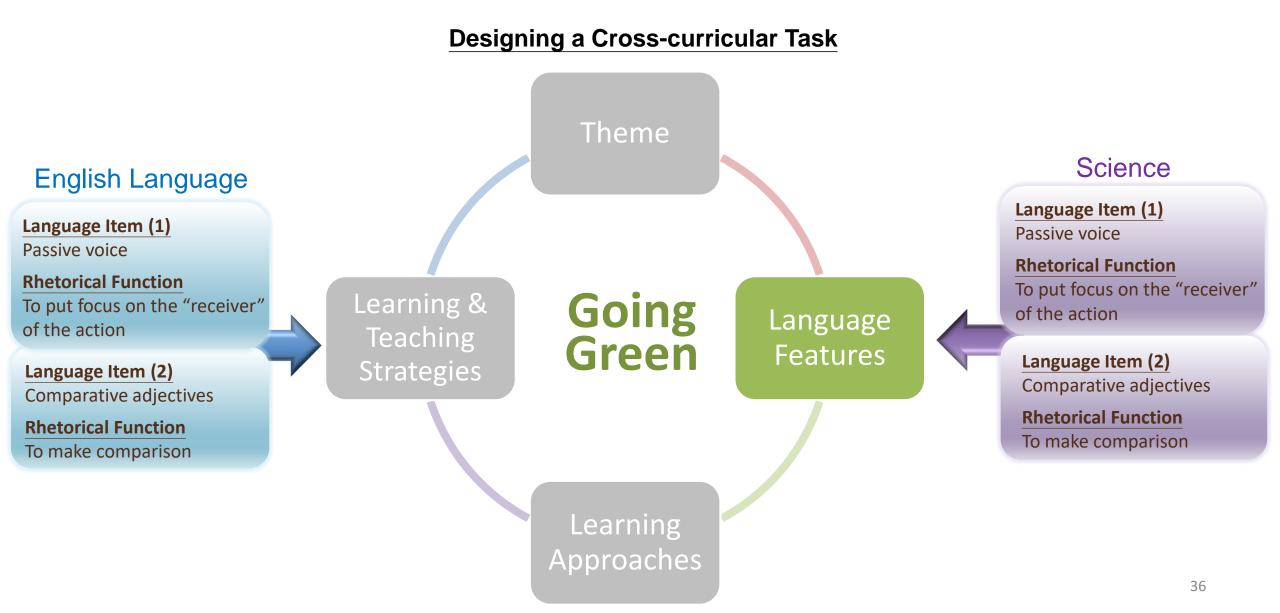


Identifying Connections between English Language and Science

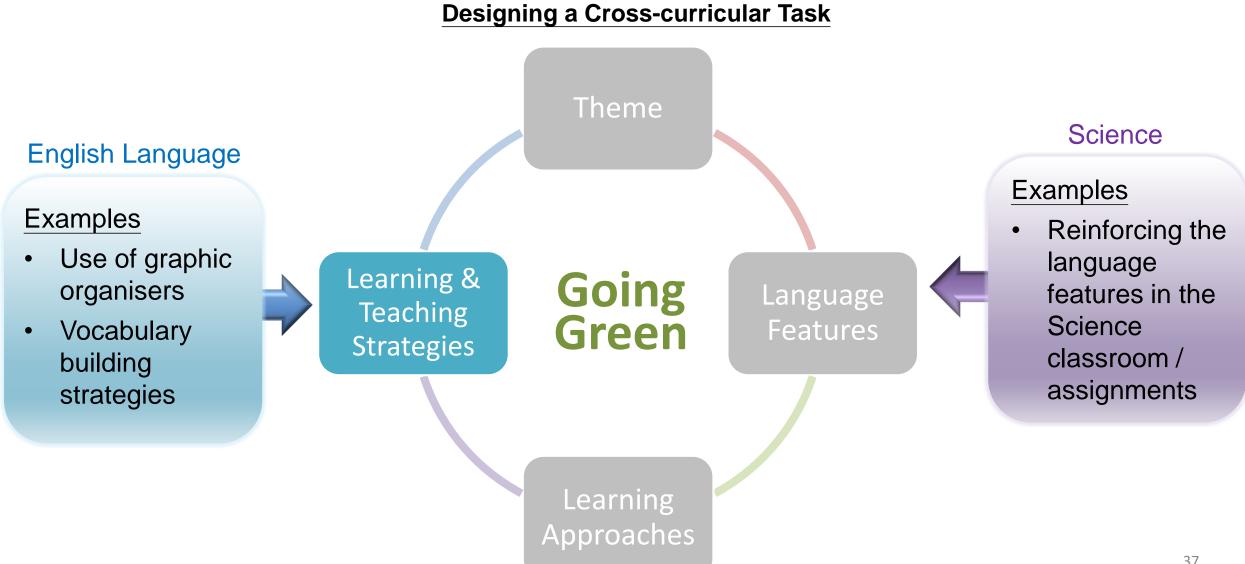
Connecting Students' Learning Experiences between English Language & Science



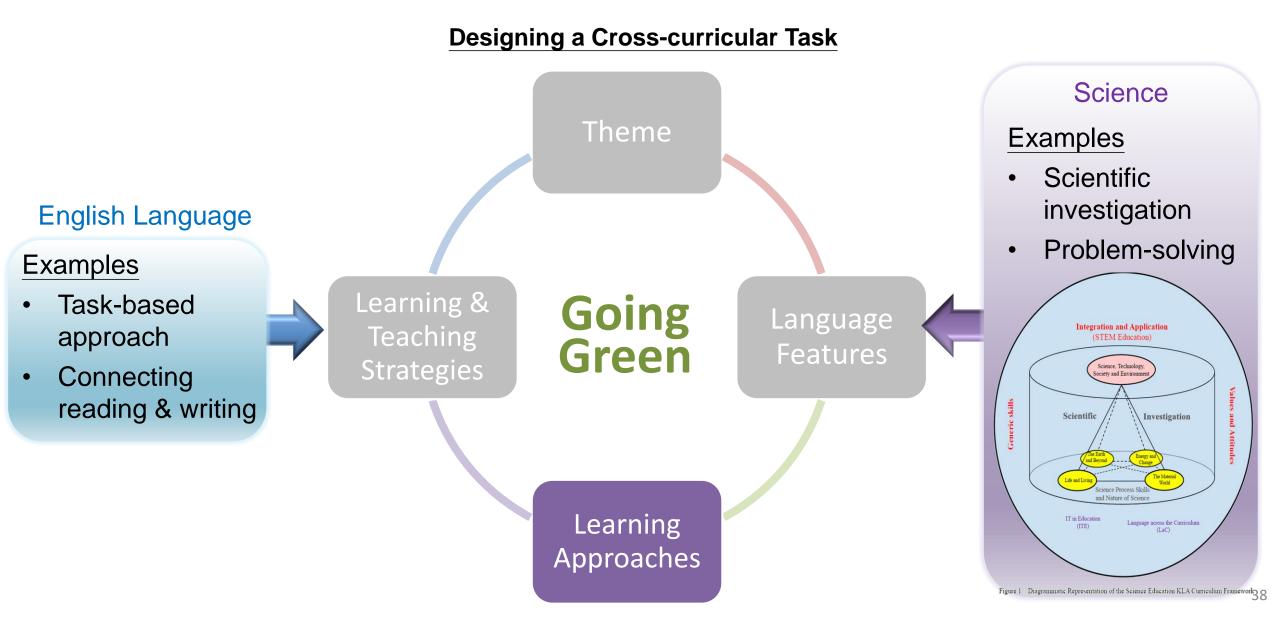
Connecting Students' Learning Experiences between English Language & Science



Connecting Students' Learning Experiences between English Language & Science

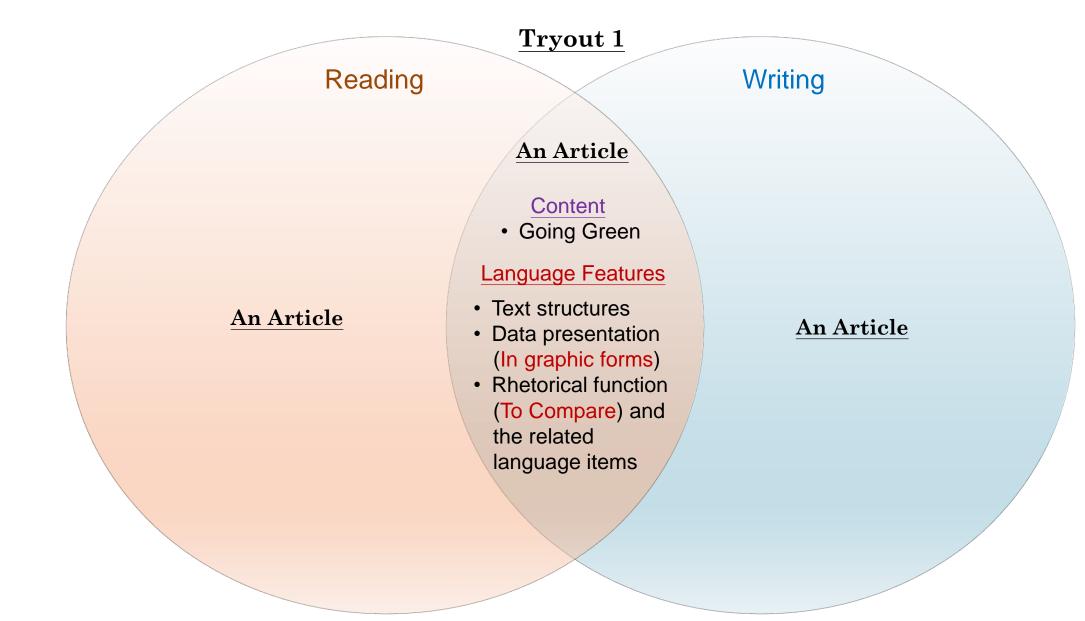


Connecting Students' Learning Experiences between English Language & Science

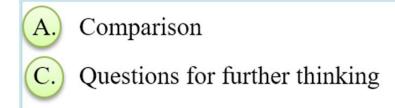


Developing Students' Literacy Skills

Connecting Reading and Writing



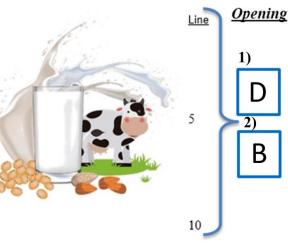
Understanding the Text Structure

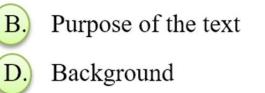


A Guide to the Impact of Cow's Milk, Almond Milk, and Soy Milk on Your Health and the Environment

Paragraph

- 1 If you're thinking about switching from cow's milk to a plant-based alternative such as almond milk or soy - whether for health or environmental reasons - it's useful to first find out just what each alternative provides, not to mention the impact it's having on the planet.
- We compared the carbon footprint, water 0 footprint, nutritional value and price of cow, soy and almond milk to see just how each one measures up.







Nutrition

Cow's milk hasn't been faring very well so far when ompared to plant-based alternatives, but there may be 40 nother reason why it remains so popular.

- (9) Cow's milk contains a lot of natural vitamins and minerals that the body needs, which don't naturally occur in plant-based milk, such as calcium and vitamins D and B. However, you can find versions of these drinks which have these nutrients added to them, to help you replace any loss by cutting out cow's milk from your diet. 45
- In general, one cup of semi-skimmed cow's milk provides eight grams of protein an 0 amount matched only by soy milk, which provides between six and nine grams of protein. One cup of almond milk, meanwhile, contains just one gram of protein.
- n Calorie-wise, both cow's milk and soy milk contain around 110 calories per cup, but 50 almond milk provides only around 30 calories.
- Cow's milk also contains around 12 grams of naturally-occurring sugar, while all the 3 sugar found in soy and almond milk is added sweetener, for flavour. Of course, you can choose unsweetened soy and almond milk if you prefer, which contains only trace amounts of sugar.
- 0 It's worth bearing in mind, too, that soy milk in particular can vary greatly in quality. 55 Look for organic soy milk products made from whole soy beans, rather than processed soy, as these offer the biggest health benefits



950ml carton.

Price

Based on prices found in most supermarkets in Hong Kong, you can expect to pay between HK\$20 and HK\$25 for a 950ml carton of cow's 60 milk, but if you opt for organic cow's milk, it will cost between HK\$25 and HK\$35. Soy milk can cost anywhere between HK\$15 and HK\$25, depending on whether you choose basic milk made from processed soy protein, or organic milk. Almond milk is the most expensive of the three, at around HK\$35 for a

Α

Deconstructing the Content and Language of the Text (Graphic Representation)

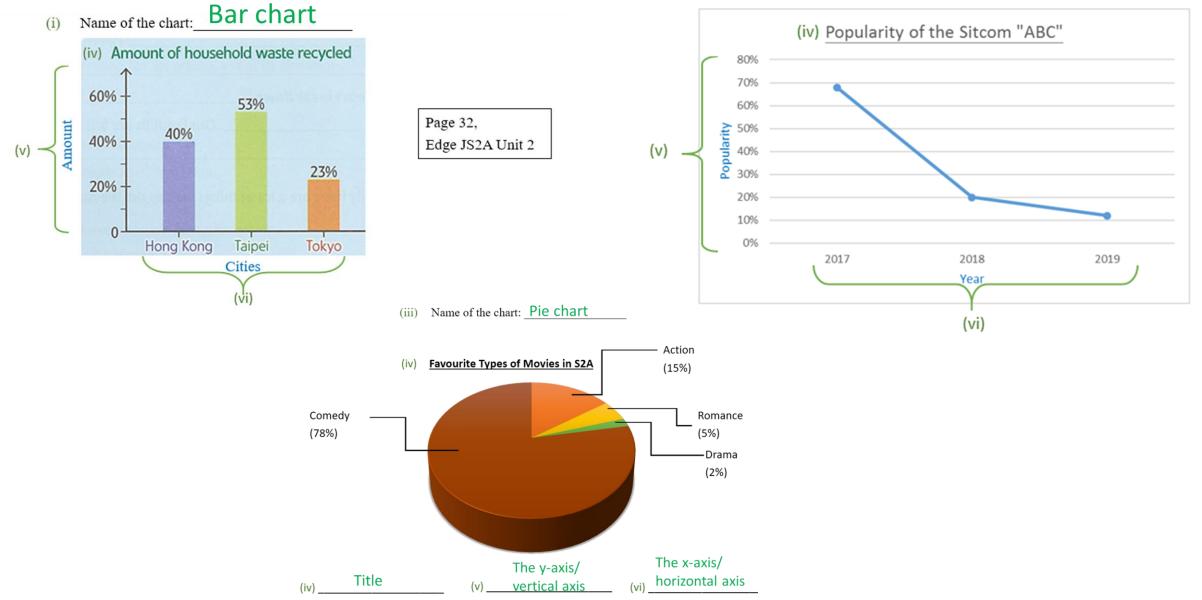
Nutrition	Similarities	Differences	Cow's Milk	Soy Milk	Almond Milk
Vitamins and minerals		a) natural (j) "However" added vitamins b) and minerals			
Protein		c) $\underline{8g}$ d) $\underline{6}$ - $\underline{9g}$ (k) $\underbrace{meanwhile}_{e}$ (e) $\underline{1g}$			
Calories	(1) <u>"Both</u> " (f) around <u>110</u> calories	Almond Milk			
Sugar		(h) <u>natural</u> (i) <u>added sweetener</u>			

	Language Items		Communication Purpose (The options below can be used more than once.)
1	measures	b	a) Introducing the source of information
2	But	d	b) Presenting information
3	found	b	c) Defining
4	the most expensive	d	d) Making comparison (To present differences)
5	According to	а	e) Making comparison (To present similarities)
6	Both	e	
7	meanwhile	d	
8	refers to	C	
9	while	d	

Raising students' awareness of the <u>rhetorical function</u> (To Compare) and the related language items

Data Presentation

(ii) Name of the graph: Line graph



Data Presentation



Description

Hong Kong recycles a higher percentage of its household waste than Tokyo, although its percentage is lower than Taipei's. So I think we can say that, in terms of recycled waste, Hong Kong is more active than Tokyo, but less active than Taipei.

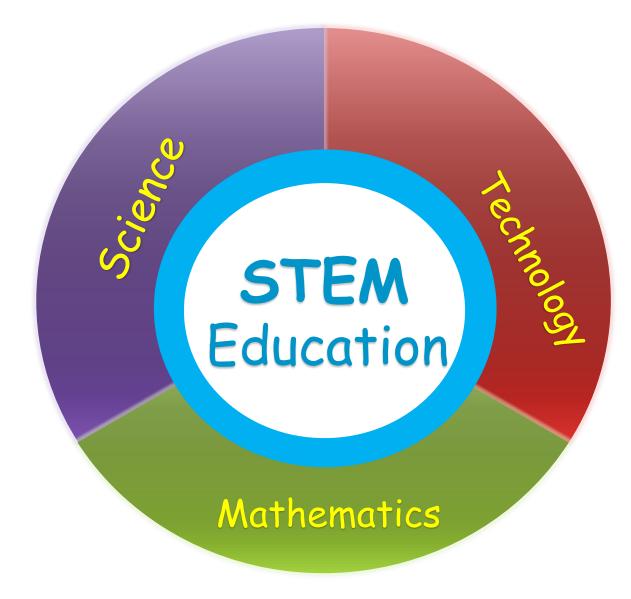
a) Underline the language items used for making comparisons.

(i) Language form: <u>Comparative Adjectives</u>
Adj + "er" "than"
"more"/ "less" Adj "than"

(ii) Language function: To compare

Promoting Interdisciplinary Learning in the English Classroom (Tryout 4)

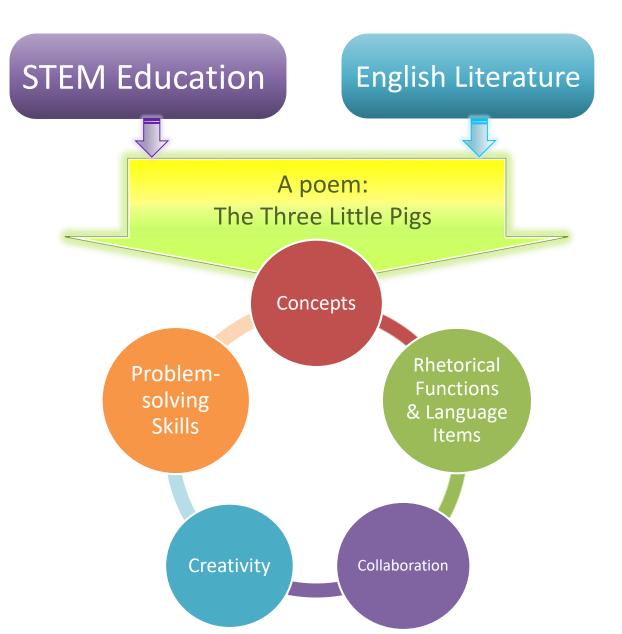
Promoting STEM Education in the School Curriculum



- Strengthening the ability to integrate and apply knowledge and skills
- Nurturing creativity, collaboration and problem solving skills

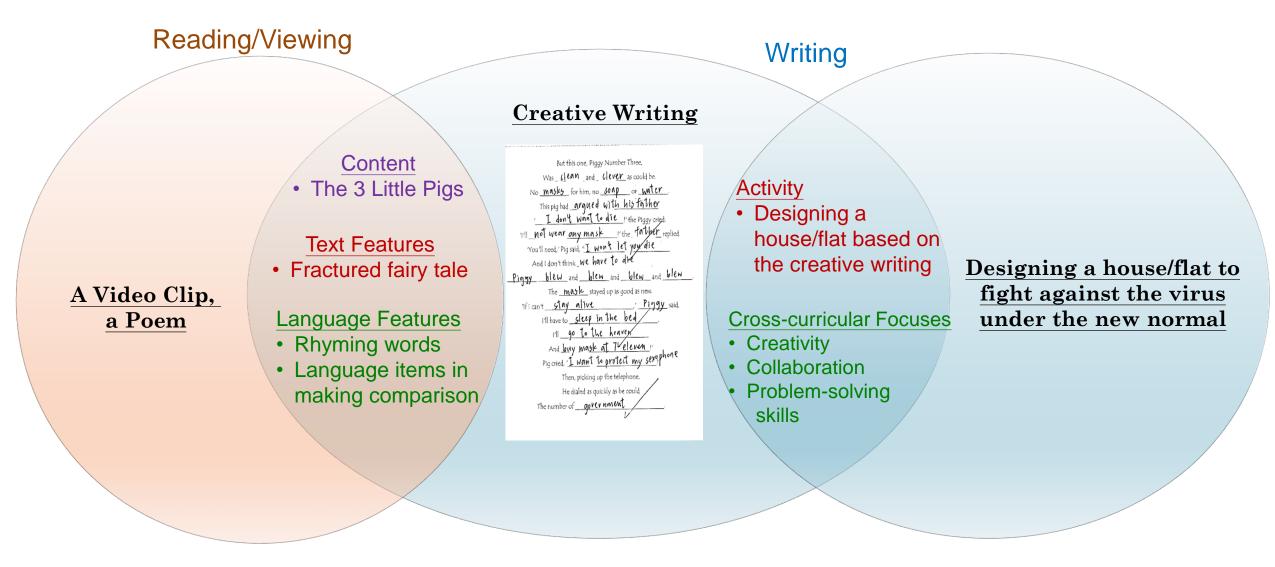
SECG (2017)

Connecting Students' Learning Experiences between English Language & STEM Education

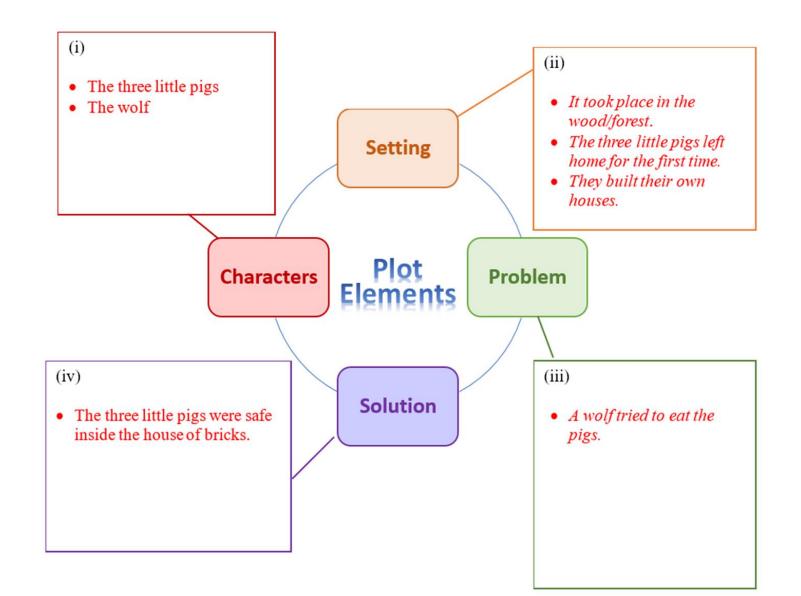


Developing Students' Literacy Skills

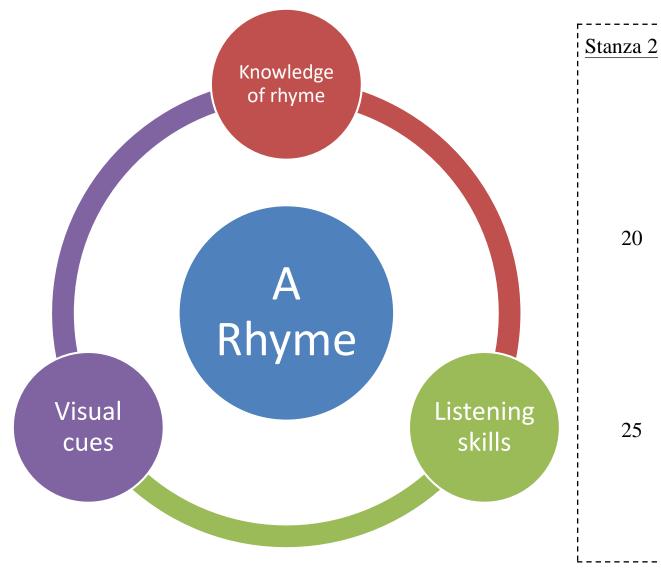
Consolidating Students' Learning through Editing a Video Clip



Understanding the Text Structure



Understanding the Text Features



The little pig began to <u>pray</u>, But Wolfie blew his house (a) <u>away</u>. He shouted, 'Bacon, pork and ham! Oh, what a lucky Wolf I am!' And though he ate the pig quite <u>fast</u>,

- He carefully kept the tail till (b) <u>last</u>. Wolf wandered on, a trifle bloated. Surprise, surprise, for soon he noted Another little house for pigs,
- And this one had been built of (c) <u>TWIGS</u>!
 'Little pig, little pig, let me come in!'
 'No, no, by the hairs on my chinny-chin-chin!'

'Then I'll huff and I'll puff and I'll blow your house in!'

Understanding the Characters

Language Input: Presenting similarities Presenting differences "both" "meanwhile", "but", "while", "the most adjective"

		The first little pig (Stanza 2)	The second little pig (Stanza 3)	The third little pig (Stanza 4)
(a)	What is the little pig's reaction to the wolf's attack?	(i) • Said "No" to the Wolf & prayed	 (ii) Said "No" to the Wolf & squealed Bargained with the Wolf to make a deal 	 (iii) Was confident and not scared of the Wolf at all Sought help from Miss Red Riding Hood
(a)	Do you think the little pig's reaction is effective? Explain your answer.	(i) • Accept any possible answers	 (ii) Accept any possible answers 	 (iii) Accept any possible answers

Literacy Skills Development Understanding the Characters

<i>anguage Input:</i> <u>Presenting simil</u> "both"		rities <u>Presenting differences</u> "…meanwhile…", "…but…", "…while…"	
		Red Riding Hood in the rhyme <i>The Three Little Pigs</i>	Little Red Riding Hood in the children stories you have read before
(a) Wh like	at does she look e?	 (i) wears two wolfskin coats; carries a pigskin traveling 	(ii)wears a red cape with a red hood

(a) What is her personality?	 <i>case</i> <i>brave, powerful, cruel</i> 	 (ii) lovely, innocent, trusting
(a) What happened to her?	 (i) got a call from the little pig seeking help; shot the wolf dead; made a pigskin traveling case from the little pig 	 (ii) visited her grandma; eaten by the wolf; saved by a hunter

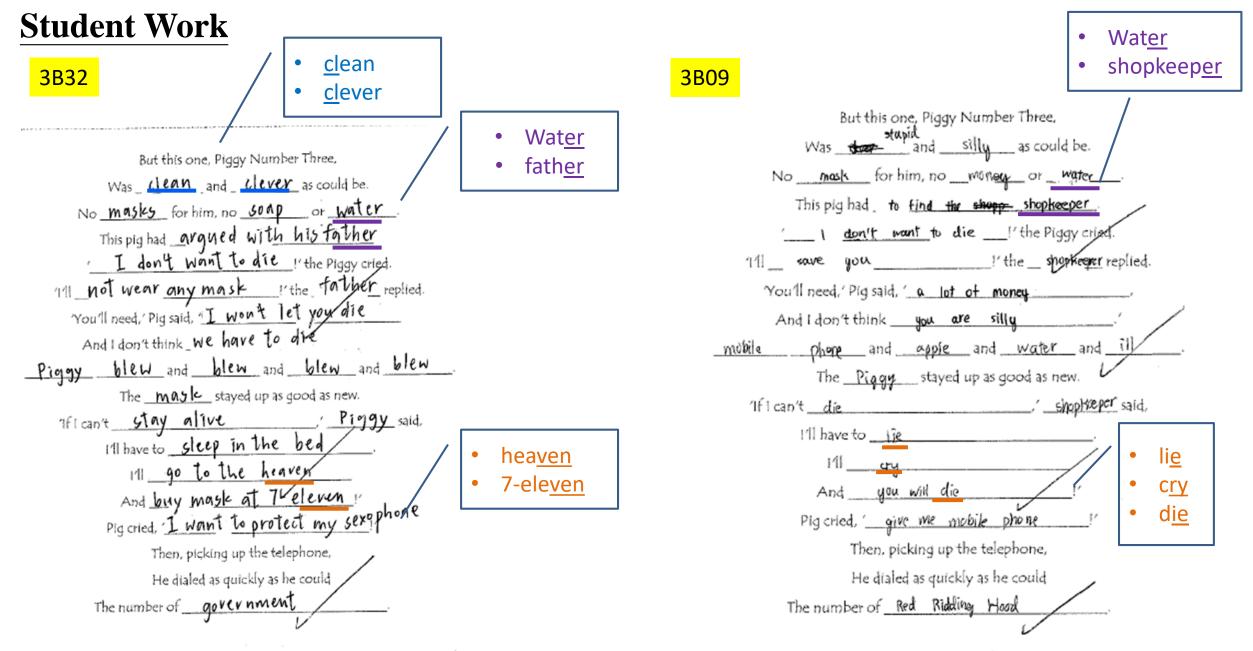
Creative Writing

The Three Little Pigs in Coronavirus Fight

One of the three little pigs was infected by the coronavirus and Piggy Number Three was trying his best in fighting against the virus...

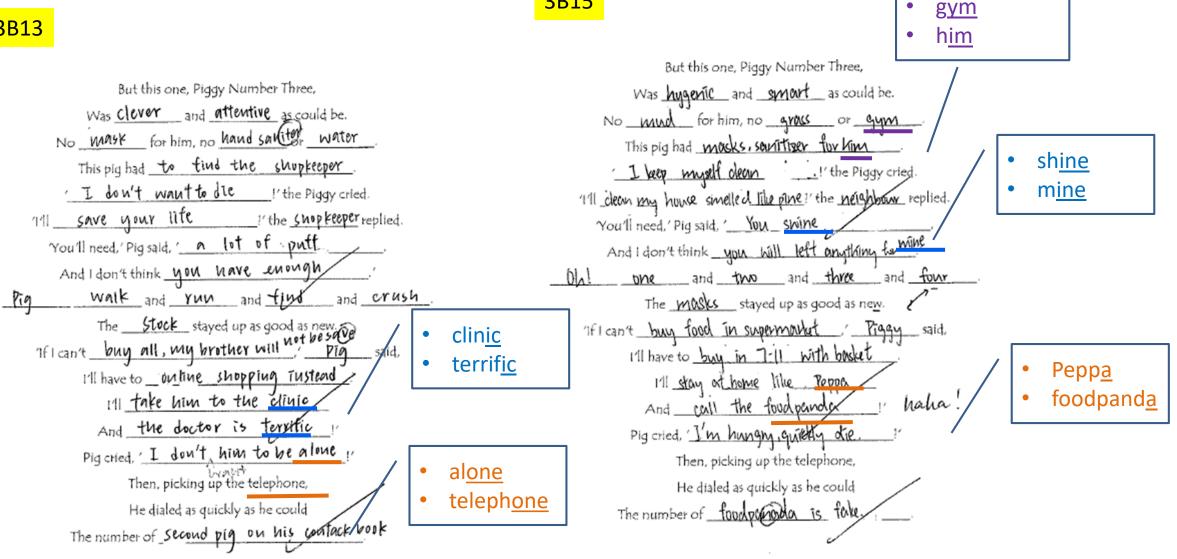
В	ut this one, Pigg	y Number Three,				
		as cou				
		or				
		!' the P				
		!' the				
'You'll need,' F	'ig said, '		<i>,</i>			
And I don't	think		ا •			
	and	and	and			
	The stayed up as good as new.					
'If I can't		۱ /	said,			
I'll have	to		·			
' _						
And _	And!'					
Pig cried	Pig cried, '!'					
	Then, picking up the telephone,					
	He dialed as quickly as he could					
The numbe	The number of					

Literacy Skills Development (Creative Writing)



Literacy Skills Development (Creative Writing) Student Work

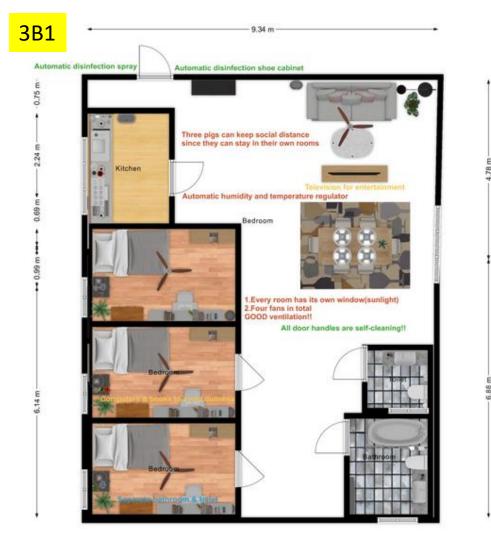
3B13



3B15

Literacy Skills Development (Creative Writing)

Integrating concepts/knowledge gained from Science/Mathematics in designing a flat/house for the new normal



9.24 m



Cross-curricular Focuses Generic Skills related to STEM Education

