Unit name: What's the matter?

Student Year level/EAL Stage/s: Level 3/4, Stage B3

Learning area/s: English, Science

Victorian curriculum/content links:

Students explore key concepts about matter and changes that occur through conducting science experiments.

SCIENCE – AusVELS Achievement Standard – Level 3.

- A change of state between solid and liquid can be caused by adding or removing heat
- Heat can be produced in many ways and can move from one object to another; a change in the temperature of an object is related to the gain or loss of heat by the object
- Science involves making predictions and describing patterns and relationships
- Compare results with predictions, suggesting possible reasons for findings

English – AusVELS Achievement Standard – Level 3

Speaking and Listening

- Learn extended and technical vocabulary and ways of expressing opinion including modal verbs and adverbs
- Listen to and contribute to conversations and discussions to share information and ideas and negotiate in collaborative situations and use interaction skills, including active listening and clear, coherent communications
- Plan and deliver short presentations, providing some key details in logical sequence, using appropriate tone, pace, pitch and volume

Reading and viewing

- Understand how different types of texts vary in use of language choices, depending on their purpose, audience and context, including tense and types of sentences
- Analyse how different texts use verb groups to represent different processes (action, thinking, feeling, saying, relating)

Writing

- Understand that verbs represent different processes (doing, thinking, saying, and relating) and that these processes are anchored in time through tense
- Plan, draft and publish imaginative, informative and persuasive texts demonstrating increasing control over text structures, language features, print selection and multimodal elements appropriate to the audience and purpose

Class description: The class consisted of 27 Year 3/4 students, with 50% of students coming from a non-English speaking background. Eight of these students came from South Sudan and spoke Dinka and Arabic at home. They had all experienced trauma in Kenyan refugee camps, and had been separated from family members. These students had been placed on the Victorian 'EAL Developmental Continuum P–10' at stage B3

Main genre focus: Hybrid text- Science experiment report. The students were required to prepare and present an oral science experiment report, explaining a scientific phenomenon, to peers, at a school science expo, after independently writing a science experiment report.

Specific EAL learning needs to be covered in this unit:

The Targeted EAL Focus Group students needed assistance with:

- Writing in the range of text types required for a science experiment text, e.g. procedural, descriptions
- Using correct tenses
- Including a range of descriptive and more technical vocabulary
- Including paragraphs
- Punctuation, e.g. capital letters, full stops

Students were expected to prepare and present an oral science experiment report, explaining a scientific phenomenon at a school science expo after independently writing a science experiment report. To achieve this the EAL focus group participated in additional science experiments, using visual and audio-visual materials to build understanding of content and subject terminology. This also reinforced the correct structure and grammatical features of a science experiment report.

Collaboration with other teachers: At this school, the classroom teachers support the EAL students in the mainstream, as there is minimal additional support for EAL students. A Backward Mapping example text was created by the team of Year 3/4 teachers, which specifically identified the linguistic features and structures of a scientific experiment report. *The teachers could not source appropriate model texts, which both matched the structure of the hybrid text, and the age and stage of the students.* As a result, they developed a series of DVDs, showing scientific experiments and modelling the hybrid text required for a scientific experiment report.

Years: 3 & 4 Unit name: What's the matter? Level 3 EAL Stage B3				Time allocation: 1 Term							
	Victorian curriculum/content ol	bjectives			Main text f	ocus					
S		ce There is a difference between solids, liquids and gasses There are three main states of matter			Text-type and mode	Listened to	Spoken	Read	Written	Viewed	Produced
 There are three main states of matter Changes in matter can occur as a result of applying heat, cooling and chemicals Change can be either reversible or non-reversible Each state of matter has particular properties that assist with classification English Prepare and present an oral science experiment report, explaining a scientific phenomenon, to peers science expo. Independently write a science experiment report. 		, cooling and cher	nicals	Narrative							
		st with classification		Recount							
		entific phenomenon, to peers at a	Procedure								
Торі	c specific vocabulary		Linguistic stru	ucture focus	Report						
expe	riment, aim, hypothesis, prediction	ns, procedure, results,	Text type: Science experiment report Social purpose/genre: To inform the audience of a scientific phenomenon through recounting the process of scientific investigation.	Explanation							
obsei	rvations, description, conclusion, s			Discussion							
moled	cules, density, expand, liquefy			Argument/ exposition							
Assessment types used Teacher led Self and peer • Informal observation • Self-reflection • Planned observation • Peer discussion • Questioning/discussion • Peer observation		Structure:Title(Name of investigation/experiment)Aim(investigative question)Hypothesis(prediction)Procedure(equipment/ materials/steps)Results(observations/description of change)Conclusion(generalisations)	Other: Hybrid Text: Science experiment report featuring: Procedure, Description, Scientific Conclusion	~	~	*	~	~	~		
			Grammatical	features focus	Functions						
• Dahl, Georg https: http:/ butto Schola Rossb Curmi Exper	 bcus-Learning intentions Additional science experiments, materials, and visual and audio-vi students understanding of: content and subject termi correct structure and gran science experiment report. arces R. 1982. George's Marvellous Medicine ges Marvellous Medicine video (1:00:30 //www.youtube.com/watch?v=wclY8F /www.abpischools.org.uk/topic/solids- ns 2, 3 and 6 for individual explanation astic, 1991. Matter. Australia: Scholasti ridge, J. 2015. Putting it in writing. New i, V. & Hein, J. 2012. <u>Mr Hein and Mrs 0</u> iments – Melting Chocolate' (09.56) /fuse.education.vic.gov.au/?5B8CHR 	sual scaffolds to build EAL nology matical features of a 2. Victoria, Australia: Penguin. 2) - <u>UOTE -liquids-gases/2/1</u> (Click on s). c. vtown, NSW, Australia: PETAA.	 verbs, relat Present tens Future tens hypothesis) Past tense u and Conclusi Noun/Partic content voce process) Adverbial ci 	se/Imperatives (Procedure) e (Prediction and developing a using some passive voice (Description ion) tipant – Specific/General (Specific abulary, describing subject and ircumstances – time/place/manner formation on how, where, when to	Classroom lear arguing classifying establishing evaluating hypothesisir identifying judging offering persuading planning predicting requesting sequencing warning	limits ng	and cha	ng g ng processes ng cause and ng g g uing g	Expres	aining comm sing: apology appreciatior approval certainty concern frustration indifference intention needs/want preferences probability regret	n s

Level 3/4/Stages B2/B3: Ideas for activities

These activity suggestions are linked to the aspects of language in the EAL Developmental Continuum at Stages B2 and B3. The shaded activities types are included in this unit.

Listening and speaking	Reading	Writing
Text/Communication To participate in different learning contexts and explore a range of oral text- types:	Text/Communication To read and view a wide range of texts for a range of purposes: • read and research texts for information	Text/Communication To introduce students to writing various texts for a range of purposes: • write a range of factual texts to fulfil particular purposes
 take part in conversations and discussions about personal experiences and interests discuss topics related to the KLAs take part in listening to, preparing and delivering a formal talk to others, e.g. debates, explanations take part in listening to, preparing and presenting performances, e.g. stories, plays, poems, wordplay. 	 read and reflect on novels, poems, short stories, viewed texts follow written instructions and directions obtain information from advertisements, posters, signs, captions, etc. obtain information from diagrams, tables, maps, plans, graphs, etc. 	 write a range of fictional texts to fulfil particular purposes give information in graphic form, e.g. maps, diagrams, graphs give information through signs, captions, tables, etc. share and talk about their own writing.
 Contextual understanding To develop awareness and skills in using the oral text-types appropriate to particular purposes and audiences: compare the effectiveness of spoken texts in serving particular purposes, e.g. reports, explanations identify the characteristics of a variety of text-types use non-verbal language in drama and role-play compare how spoken texts change, depending on the formality of the situation. 	 Contextual understanding To interpret the information in factual and fictional texts according to purpose and context: discuss how texts change according to purpose and audience talk about the best way to present information and why formats vary, e.g. table, graph, written text talk about the reasons for different opinions about the meaning of a text. 	 Contextual understanding To recognise that particular text-types have particular features that will be affected by the writer's purpose and audience: talk about the purposes and audiences they are writing for discuss the importance of vocabulary choice and writing style when writing for different audiences talk about the most purposeful and useful ways of presenting information, e.g. a table, a graph, written text.
 Linguistic structures and features To use the structures and features of a variety of common spoken texts: discuss the impact of, and develop a vocabulary to discuss aspects of, spoken texts, e.g. pace, intonation talk about the cohesive devices used in spoken texts, e.g. sequencing, pronoun referencing, use of topic sentences learn the specialised language of particular topic areas. 	 Linguistic structures and features To focus on text structures and features to assist in reading a wide range of texts: recognise the characteristic features of particular texts, e.g. choice of vocabulary, cohesion, topic sentences use book organisation features to access information, e.g. contents page, index, headings discuss how additional features of texts assist or affect interpretation, e.g. layout, illustrations, diagrams. 	 Linguistic structures and features To use knowledge of the characteristic structures and features of common texts to write appropriately for a range of purposes: compare texts written for a range of purposes and identify patterns in texts identify the features that make one text more effective than another learn and use appropriate vocabulary talk about and use punctuation in their writing use layout to assist in the presentation of their writing.
Strategies To reflect on and use effective oral communication strategies with teachers and other students: • identify and practise effective small-group communicative strategies • listen for information and respond appropriately • plan for, rehearse and modify own spoken texts.	 Strategies To practise strategies that assist in reading for enjoyment, interpretation and information: talk about and use strategies for effective reading, e.g. skimming and scanning text select texts for own purposes read silently and aloud use a range of strategies when reading and finding out the meaning of new words research a topic and find appropriate information. 	 Strategies To develop a range of strategies and resources for planning, reviewing and ensuring the appropriateness of their writing: observe and practise strategies for writing, e.g. planning, topic selection, gathering information, note taking use models to write texts for particular purposes review writing to identify aspects that may be improved, e.g. handwriting, presentation, spelling, sentence linking use different resources to check and confirm spelling.

Teaching and learning activities	Linguistic focus	Assessment for learning ideas
 N.B. Only a selection of the many teaching and learning activities the students engaged in are included in this unit Whole Class Discuss the unit learning intentions. The aim of this unit is to assist students to begin to understand: The difference between solids, liquids and gasses Changes in matter can occur as a result of applying heat, cooling and chemicals Scientific Inquiry through developing investigative questions, making predictions, planning and conducting investigations, comparing results with investigations and using tools and materials safely Scientific procedures and produce simple spoken and written science experiment reports to explain a scientific phenomenon. 		 Assessment for learning ideas Unit learning intentions List and discuss the learning intentions of the unit with the students to ensure they know what they are aiming to achieve throughout the unit. By the end of the unit they will be able to understand: Science There are three main states of matter The difference between solids, liquids and gasses Changes in matter can occur as a result of applying heat, cooling and chemicals Change can be either reversible or non-reversible Each state of matter has particular properties that assist with classification Science involves: making predictions planning and conducting investigations describing patterns and relationships comparing results with predictions suggesting possible reasons for findings using tools and materials safely English Students will: Prepare and present an oral science experiment report, explaining a scientific phenomenon, to peers at the school science expo.
NOTE: Setting the context/Building the Field/Tuning in In this stage the focus is placed on 'developing scientific inquiry as studen 2015. p.65) The teacher: • Establishes what shared or prior understandings students have • Builds on the students' knowledge of the three states of matter • Builds on the students' knowledge of the language required to	of scientific knowledge and scientific methods and what needs to (solids, liquids & gases).	

Teaching and learning activities	Linguistic focus	Assessment for learning ideas
 Building scientific content about changes Listening to, reading, and viewing a range of texts to tune students into a science topic, matter and experimentation e.g. Read Roald Dahl's book, 'George's Marvellous Medicine' as an ongoing serial reading task. Dahl, R. 1982. George's Marvellous Medicine. Victoria, Australia: Penguin. View YouTube video concurrently to ensure EAL students' understandings https://www.youtube.com/watch?v=dTx-mCriQOE Teacher guided questions asked at different stages in the text/pausing of video to orally introduce stages of a science experiment report. Class word wall/glossary commenced and added to in an ongoing way throughout the unit e.g. aim, hypothesis, conclusionwith definitions provided by students George was behaving like a scientist when he produced his marvellous plan. What was George's marvellous plan to do/make? (Make a 'Marvellous Medicine' - Title) Why did George want to make this Marvellous Medicine? (To cure Grandma Kranky of her nastiness – Aim). What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) What did George need and what did he do? (equipment, materials and steps – Procedure) <	Linguistic structure – Introduce orally the structure/stages of a science experiment report: Title – Name of investigation/experiment Aim – Investigative question. What is being investigated? Hypothesis – Prediction What do we predict will happen? Procedure – Steps What do we need and what are the steps? Description – Observation What did we see happen? Conclusion – Generalisation What did we find out? Linguistic features Verb/process – Future tense – 'I think George wanted to make the magic medicine to cure Grandma Kranky of her meanness'. Past tense – 'George observed that the magic medicine made steam come out of Grandma Kransky's head and she grew taller'. Noun/participant – Specific/General (technical) hypothesis, conclusion ingredients added to George's Marvellous Medicine e.g. Golden Gloss Hair Shampoo, Superfoam Shaving Soap Present tense/Imperatives/sequence makers, e.g. Number one. Pour in a bottle labelled Golden Gloss Hair Shampoo.	 Observation Observe how students participate in the class discussions around the text. Note the understandings and interest students have in the text. Observe if students are able to respond to the questions that begin to orient them to the stages of a science experiment. Observe students use of future tense when they predict and past tense when they retell stages. Observe students understanding of technical vocabulary as they define new vocabulary in the word list/glossary

Whole Class	Functions	Observation, questioning and feedback
 Building content about matter: solids, liquids and gases Teacher poses the following questions What is matter? What is a solid, liquid and gas? Can you name some examples of solids, liquids and gases? Students reflect on their own and then share/discuss their ideas with a partner. Students view two websites that explain simply the three states of matter. As they view they take notes and record their information on a data chart under the three headings, solids, liquids and gases. https://www.youtube.com/watch?v=wclY8F-UoTE Students share information and add new vocabulary with definitions to class word wall 	 Listening for information about the 3 states of matter– solids, liquids, gases Recording information on a data chart under 3 subheadings – solids, liquids, gases Linguistic features: Noun/participant, – Specific e.g. Solids can be soft, bouncy or fluffy'. Noun/participant, – General (technical), e.g. particles, shape, solid. liquid, gas, mass, atoms, water vapour Verb/process action – 'Solids can change their shape if you squash them'. Adverbial/circumstances, e.g. 'In a solid the particles are packed tightly together and vibrate slowly'. 	 Observe students as they share their ideas and complete the data chart to assess their understanding of the topic and their use of the technical vocabulary Teacher questions and provides immediate, on the spot, verbal feedback to the class and individuals Students add to their data charts in an ongoing way throughout the unit as they learn more about the three states of matter Students retain their data charts for future reference
EAL Focus Group Using the information from <i>George's Marvellous Medicine</i> and the websites explaining the 3 states of matter, students brainstorm words or draw pictures that are related to solids, liquids and gases. 	Functions • Describing • Classifying • Expressing modality Linguistic structures and features: Noun/participant, - Specific e.g. Solids can be soft, bouncy or fluffy'. Noun/participant, - General (technical) e.g. particles, shape, solid. liquid, gas, mass, atoms, water vapour Linking bits of information, group + group, e.g. Liquids do not have a shape, Solids are hard Classifying, Noun: Gases are sort of like oxygen Low Modality: You can change solids by melting or crushing.	 Observation of Brainstorming Task Observe development of student vocabulary and understandings from the book and websites as they record and/or illustrate them on large poster paper

Whole Class	Function Describing the purpose of different stages when	 Observation Observe if students are able to predict,
Building content through hands on experiments to observe chemical changes	Describing the purpose of different stages when conducting a science experiment	observe, describe and explain the steps in
 Introduce the notion of experimentation in the classroom by videoing the teacher undertaking an experiment making 3 cups of tea with different water temperatures. Teacher orally introduces the stages of the science experiment report reinforced with sentence strips of the investigative questions and flash cards of the stages, e.g. What is the name of investigation/experiment? Title What is being investigated? Aim What do we predict will happen? Hypothesis What do we need and what are the steps? Procedure What did we see happen? Description What did we find out? Conclusion Students predict prior to experiment and observe, describe and discuss changes that occurred when different temperature liquids were added. Video is replayed and steps reinforced. Video muted and students retell steps. 	Linguistic structure Structure/stages of a science experiment report. Title – Name of investigation/experiment Making a cup of tea using cold, warm and boiling water Aim – Investigative question. What is being investigated? To see how the colour of water changes when a teabag is added to cold warm and boiling water. Hypothesis – (Prediction). What do we predict will happen? Procedure – (Steps). What do we need and what are the steps? Description – (Observation). What did we see happen? Conclusion – (Generalisation). What did we find out? Linguistic features: Modality – I think that, could be, can, might, may Verb/process – Future tense – I think that there will be no change in the colour of the tea when different temperature water is added. Past tense – We found out that the tea made with the hot water was the darkest colour.	 the 'Making a cup of tea' experiment. Observe students use of future tense when they predict and past tense when they retell stages. Analysis of student work Planned Observation – Oral language analysis (pretest). Listen to and film EAL students explaining how to make a cup of tea using water of different temperatures and the changes that they observed. Teacher analyses students' transcripts to identify students' strength and areas of need, e.g. grammar, appropriate vocabulary, pronunciation, fluency, intonation.
 Whole Class A science lab is set up in the classroom which includes simple, general science experiment cards and equipment. Students in pairs, take on the role of scientist by conducting their own science experiments guided by the investigative questions and flash cards of the stages Sample tasks e.g. floating and sinking estimating the distance that small pieces of paper travel, when blown with a straw estimating the number of grains of rice being lifted from one container to another how many times a shoelace can be tied in one minute. Each group reports back to the class 	 Functions Stating a purpose for the science experiment Predicting /Hypothesising Expressing modality Giving instructions Observing, Analysing and interpreting Expressing cause and effect Checking against the hypothesis as the end of the experiment Linguistic features Future tense (to predict and unknown outcome) can + be To see how many times a shoelace can be tied in one minute. Modality – I think that a shoelace can/will/might be tied three times in one minute. Past tense – We found out that the shoelace could be tied only two times in one minute. Time connectives – to indicate sequence of the experiment and the procedure, e.g. first, next, then 	 Observation, questioning and feedback Observe students as they undertake the experiments in the laboratory and report back to the class. Are they beginning to use the language of science experiments, e.g. aim, hypothesis, steps, observation? Observe students use of the future tense to predict and the past tense when they retell what they did and their observations. Teacher guides students' discussions and provides on the spot verbal feedback as students participate in the experiment and report back to the class. Teacher uses careful questioning and responses guiding students towards more scientific structures and vocabulary.

• Model text production

N.B. Because it is a hybrid text the teacher decided to model, deconstruct and jointly construct the text in stages

Vhole Class	D		the solution of the second	An also to a first scheme state of a
 Teacher repeats' Popping Corn' experiment with whole class scaffolded by investigative questions and key stages on flashcards. Shared reading and deconstruction of mentor text – 'Popping Corn' (Figure 1) to explicitly introduce science experiment report structure 			Linguistic Structure Title – Name of investigation/experiment. Popping corn Aim – Investigative question. To see what happens when popcorn kernels are added to heat. Hypothesis – Prediction. That the popcorn kernels will expand when heated in a hot pan.	 Analysis of student work Were the students able to sequencing up text with a focus on structure? Popping Corn (Figure 2)
	opping Corn (Fig		Procedure – Steps: What do we need and what are the steps?	Title: Popping Corn
Aim Hypothesis	Investigative question What were we investigating? Prediction What do we	To see what happens when popcorn kernels are heated in a pan. That the popcorn kernels will expand when heated in a hot pan.	Description – Observation: What did we see happen? Conclusion – Generalisation: What did we find out?	Aim: To see what happens when popcorn kernels are heated in a pan. Hypothesis: That the popcorn kernels will expand when heated in a hot pan. Procedure: Equipment and materials • pan with lid
	predict will			• oil
Procedure	happen? Steps	Equipment and materials		half a bag of popcorn kernels <u>Steps</u>
	What do we need and what are the steps?	 pan with lid oil half a bag of popcorn kernels Steps Pour the oil into the hot pan Add half a bag of popcorn kernels to the hot pan Place the lid on top of the pan 		Pour the oil into the hot pan Add half a bag of popcorn kernels to the hot pan Place the lid on top of the pan Remove the lid from the pan after 5 minutes Serve the expanded popcorn kernels with salt and melted butter
		 Remove the lid from the pan after 5 minutes Serve the expanded popcorn kernels with salt and melted butter 		Description : When the popcorn kernels were added to the hot pan they began to expand and made a poppin noise after two minutes. The popcorn kernels stopped
Description	Observation What did we see happen?	When the popcorn kernels were added to the hot pan they began to expand and made a popping noise after two minutes. The popcorn kernels stopped popping after five minutes. When the lid was taken off the hot pan, all of the popcorn kernels had expanded and had changed to a white colour. The popcorn had an irregular shape and felt smooth on the outside. A gas was formed as the room was filled with the smell of popcorn.		popping after five minutes. When the lid was taken off the hot pan, all of the popcorn kernels had expanded and had changed to a white colour. The popcorn had a irregular shape and felt smooth on the outside. A gas was formed as the room was filled with the smell of popcorn. Conclusion : The hypothesis was supported because th popcorn kernels expanded when they were heated in a
Conclusion	Generalisatio n What did we find out?	The hypothesis was supported because the popcorn kernels expanded when they were heated in a hot pan. This occurred because the water molecules inside the kernel moved faster as they were heated and turned into a gas. This made the kernel explode and turn inside out, into a fluffy piece of popcorn.		hot pan. This occurred because the water molecules inside the kernel moved faster as they were heated an turned into a gas. This made the kernel explode and turn inside out, into a fluffy piece of popcorn.
• Stude	ents in pairs seq	uence stages (Figure 2).		
AL Focus Grou	•	ce text as a group supported by teacher		

Whole Class

Deconstruction and Modelling of Title, Aim, Hypothesis and Procedure

• Students view 'Popping Corn' experiment on DVD made by teachers titled 'Popping Corn'. Subtitles are included to highlight the written structure of the science report focusing on the Aim, Hypothesis and Procedure

Focus on grammar of text – Highlight linguistic features of the Title, Aim, Hypothesis Procedure stages – Verb/Process/Action verbs

- Discuss with students What is being done? Highlight together the Verb/process/Action verbs in green at each of the stages (Figure 3).
- Discuss action verbs as commands/imperatives, e.g. pour, mix, add, remove...
- Class list of action verbs commenced and added to in an ongoing way ٠ throughout unit
- Discuss verb tense ٠
 - Future tense Aim and hypothesis (to predict an unknown outcome, e.g. to see what happens when, will expand
 - Present tense/Imperative – Steps, e.g. pour, add

i.e. 'Dancing Raisins' and 'Colour Changing' and written texts to reinforce the

Students complete cloze in which all of the action verbs are deleted. EAL Focus group complete cloze with a partner scaffolded by the choice of action verbs listed (Figure 4)

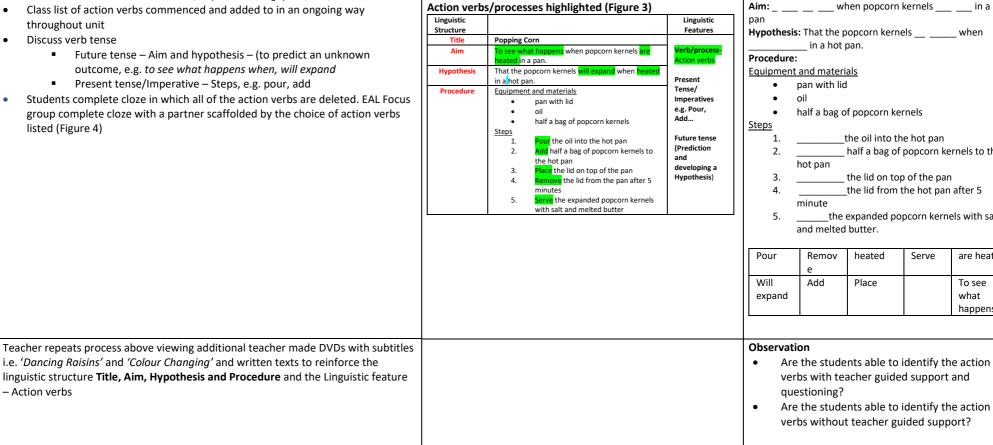
Linguistic Features

Verb/Process/Action verbs, e.g. see, are added to, will expand, pour, place...

Action verbs as commands/imperatives, e.g. pour, mix, add, remove, place...

Future tense – Aim and hypothesis, (to predict an unknown outcome e.g. to see what happens when, will expand Present tense-Steps, e.g. pour, add

Action verbs/processes highlighted (Figure 3)



Observation

٠ Are the students able to identify the action verbs with teacher guided support and questioning?

Analysis of student work

Cloze Activity: Popping Corn (Figure 4)

• Were the students able to complete the cloze using appropriate verbs?

Hypothesis: That the popcorn kernels when						
in a hot pan.						
Procedure	:					
<u>Equipment</u>	t and materi	<u>als</u>				
•	pan with lic	l				
•	oil					
•	half a bag o	f popcorn ke	ernels			
Steps						
1.		the oil into t	he hot pan			
2.		half a bag of	f popcorn k	ernels to the		
	hot pan	0				
3.	3. the lid on top of the pan					
4.		the lid from	the hot pai	n after 5		
	minute					
5.	the	expanded po	opcorn kerr	els with salt		
	and melted	butter.				
Pour	Remov	heated	Serve	are heated		
	е					
Will	Add	Place		To see		
expand				what		
				happens		
L	1	1		· · ·		
Observat	ion					
Are the students able to identify the action						

verbs with teacher guided support and

questioning? Are the students able to identify the action verbs without teacher guided support?

- Action verbs

EAL Focus Group 'Melting Chocolate' (Focus experiment)	Function Stating a purpose of the science experiment	Analysis of student work • Were the students able to sequencing cut
 Shared viewing of the DVD titled'<u>Mr Hein and Mrs Curmi's Sizzling Science</u> <u>Experiments – Melting Chocolate'</u> Subtitles are included to highlight the 	 Predicting (Hypothesising) Identifying steps 	up text with a focus on structure?
• Shared viewing of the DVD titled' <u>Mr Hein and Mrs Curmi's Sizzling Science</u>	Stating a purpose of the science experimentPredicting (Hypothesising)	Were the students able to sequencing cut
		placed Stir Put Pour placed will To see what become happens when

Whole Class	Linguistic Features Observation			
Focus on grammar of text – Noun/participant – Title, Aim, Hypothesis Procedure stages	Noun/participant (Figure 7) • Are the students able to ide	• Are the students able to identify the noun,		
 Discuss on grammar of text – Nourly participant – Title, Aim, Hypothesis Procedure stages Discuss with students – What is the action being done to? Highlight together the Noun/participant, – Specific/General (technical) in red at each of the stages (Figure 7) Class list of noun/ participants commenced and added to in an ongoing way throughout the unit Students highlight noun/participants in 'Dancing Raisins' and 'Colour Changing' texts 	Linguistic Structure Popping Corn Aim To see what happens when popcom kernels are heated in a pan. Noun/particips it Hypothesis That the popcom kernels will expand when heated in a hot pan. Noun/particips it Procedure Equipment and materials oil Itechnical) al technical)	uided support		
 EAL Focus Group 'Melting Chocolate' Highlight as a group the Noun/participants in 'Melting Chocolate' text 	Steps 1. Pour the oil into the hot pan 2. Add half a bag of popcom kernels to the hot pan 3. Place the ind on top of the pan 4. Remove the ling from the pan after 5 minutes 5. Serve the expanded popcom kernels with salt and melted butter			
 Focus on grammar of text – Adverbial/circumstances (time/place/manner) – Title, Aim, Hypothesis Procedure stages. Discuss with students – Where, when or how did the action happen? Highlight together – Adverbial/circumstances (time/place/manner) in blue at each of the stages (Figure8) Class list of Adverbial/ circumstances commenced and added to in an ongoing way throughout the unit Students highlight Adverbial/ circumstances in 'Dancing Raisins' and 'Colour Changing' texts 	Adverbial/circumstances – time/place/manner (Figure 8) Observation Linguistic Structure Linguistic Features • Were the students able to in adverbial/circumstances wir guided support and questio Aim To see what happens when popcorn kernels are heated in a pan. • Adverbial/circumstan (time/place/manner) • Were the students able to in adverbial/circumstances wir guided support and questio Hypothesi s That the popcorn kernels will expand when heated in a hot pan. Adverbial/circumstan (time/place/manner) • Are the students able to ide adverbial/circumstances wir guidance e.g. highlighting? Procedure Equipment and materials • oil • half a bag of popcorn kernels Steps 1. Pour the oil into the hot pan 2. Add half a bag of popcorn kernels to the hot pan 3. Place the lid on top of the pan 4. Remove the lid from the pan after 5 minutes 5. Serve the expanded popcorn kernels with sall and melled butter Figure 4	th teacher ning? entify the		

Joint Construction

In the 'joint construction' stage the teacher and students work together collaboratively to construct a science experiment report. They draw on shared understandings about the topic and metalanguage learned through explicit instruction of a science experiment report text. As the text is being constructed. The teacher:

* Acts as scribe

* Scaffolds the students through questions, thinking aloud, retelling etc.

 Whole Class Science experiment report frame Students with teacher jointly construct the key words (Title, Aim, Hypothesis, Procedure) as the first stages of a science experiment report frame for students to use as a scaffold when writing a science experiment report. 	Functions Identifying purpose of a science experiment report Identifying text structure (Title, Aim, Hypothesis, Procedure) Linguistic Structure Title Aim Hypothesis Procedure	
 Jointly construct a text similar to mentor text Jointly plan a report on the 'Dancing Raisins' experiment undertaken in the Building the Field stage, using the 'Science Experiment Report Frame' constructed in the previous lesson. Teacher acts as a scribe, modelling and encouraging students to use the metalanguage they have learnt about science experiment report texts. Sample Joint Construction text Dancing Raisins Experiment. Aim: To see what happens when raisins are added to a cup of lemonade. Hypothesis: That the missins will float for one minute and then sink to the bottom of the cup of lemonade. Procedure : I. Pour the lemonade up to the cup of lemonade. Procedure : I. Pour the lemonade up to the cup of lemonade. Procedure : I. Pour the lemonade up to the cup of lemonade. Procedure : I. Pour the lemonade up to the cup of lemonade. Procedure : I. Pour the lemonade up to the cup of lemonade. Procedure : I. Pour the lemonade up to the cup of lemonade. Pout the safety goggles on and we the manade for i munite. 	Linguistic Features Verb/process – Action verbs e.g. see, are added, sink Action verbs as commands/imperatives, e.g. pour, pick up, place, observe Noun/participant, – Specific/General (technical) e.g. raisins, a cup of lemonade, the safety goggles, the magnifying glass Adverbial/circumstances – (time/place/manner), e.g. into the cup of lemonade, for 1 minute, Future tense – Aim and hypothesise, e.g.to predict an unknown outcome e.g. to see what happens when, will float Present tense – Steps e.g. pour, observe	 Observation Observe students as they contribute their ideas to the jointly constructed text. Are they able to use the metalanguage to identify and describe the stages in the text? Are they able to use the linguistic features such as appropriate tense, action verbs, nouns and adverbials of time, place and manner?

Whole Class	Linguistic Structure	Analysis of student writing
Buided writing in pairs.		
 Students with a partner use the 'Science experiment report frame' and sentence starters to jointly construct the report text on the 'Changing Colours' 	Changing colours (Figure 9)	Observe how the students in pairs jointly construct the science experiment report
experiment (Figure 9). AL Focus Group – 'Melting Chocolate'	Title: Colour changing Aim: To see what happens when two primary colours (yellow & blue) are	using the guided scaffold.Are they able to use the linguistic features
 Teacher and students jointly construct a report on the 'Melting Chocolate' experiment using the 'Science Experiment Report Frame'. Teacher acts as a scribe, modelling and encouraging students to use the metalanguage they have learnt about science experiment report texts. Students in pairs jointly construct the report using the guided scaffold (Figure 10). Melting Chocolate (Figure 10) Melting Chocolate Aim: To see what happens when Hypothesis: That the bowl of chocolate chips will 	Hypothesis: That the two colours will Procedure: Equipment and materials • large test tube with lid • eye dropper • flask • funnel • blue and yellow food colouring • water Steps 1. 1. Fill 2. Add 3. Add 4. Place 5. Pour	such as appropriate tense, action verbs, nouns and adverbials of time, place and manner?
Equipment and materials • </td <td>Linguistic Features Verb/process – Action verbs Future tense – Aim and hypothesise Present tense – Steps Noun/participant, – Specific/General (technical) Adverbial/circumstances – (time/place/manner)</td> <td></td>	Linguistic Features Verb/process – Action verbs Future tense – Aim and hypothesise Present tense – Steps Noun/participant, – Specific/General (technical) Adverbial/circumstances – (time/place/manner)	

nole Class	Function	Observation, questioning and feedback
 delling and deconstruction of Description and Conclusion Students reread 'Popping Corn' text and identify final stages to be added to the science experiment report frame. 	 Observing what happened Analysing and interpreting Expressing cause and effect Checking against the hypothesis as the end of the experiment 	 Observe students participating in the class discussion. Teacher uses careful questioning and responses guiding students towards more scientific structures and vocabulary.
Hypothesis Procedure Description	Linguistic Structure Description – Observation: What did we see happen? Conclusion – Generalisation: What did we find out?	 Are they able to describe in detail their observations and conclusions of the 'Popping Corn' experiment?
Observation • Students discuss what they observed happened to the popcorn after they carried out the procedure. View visual results on DVD and students describe in more detail their observations. • Revisit Mentor text 'Popping Corn' text and read Description and Conclusion (Figure 11) • Focus on grammar of text – Highlight linguistic features of the Description and Conclusion stage – (Figure 11) • Verb/process/past tense – includes action, relating and sensing verbs • Noun/participant, – Specific – More descriptive – a popping noise • Noun/general (technical) – Increased use <i>e.g.an irregular shape, a gas, the hypothesis</i> • Adverbial/circumstances (time/place/manner), e.g. after two minutes, to the hot pan, to a white colour • Past tense	Linguistic Features Verb/process – Action verbs e.g. stopped popping, had expanded Sensing/perceiving verbs, e.g. was supported Relating verbs, e.g. had Past tense Noun/participant, Specific e.g., a popping noise, the white colour General (technical), an irregular shape, a gas, the hypothesis Adverbial/circumstances, (time/place/manner), e.g. after two minutes, to the hot pan, to a white colour Popping Corn' – Description and Conclusion (Figure 11) Descr Obse iption vati on What t did we see happ en? When the popcorn kernels were added to the hot pan they began to expand and made a popping noise after two minutes. The popcorn kernels stopped popping after five minutes. When the lid was taken off the hot pan, all of the popcorn kernels had expanded and had changed to a white colour. The popcorn had an irregular shape and felt smooth on the outside. A	 Observe students use of the past tenser to describe what they saw happen and what they found out. Were the students able to identify the: Verb/process – Action verbs Sensing/perceiving verbs Relating verbs Past tense Noun/participant, – Specific/ General (technical) Adverbial/circumstances (time/place/manner)
	Conclusion Gene The hypothesis was supported Adverbial/cir usion ralis because the popcorn kernels manner) ation expanded when they were heated manner) Wha in a hot pan This occurred because Past tense t did the water molecules inside the using some we kernel moved faster as they were past passive find heated and turned into a gas. This voice out? made the kernel explode and turn (Description and popcorn.)	

Whole Class	Passive voice – e.g. were added, was taken off	
Focus on grammar of text – Passive voice		Observation, questioning and feedback
 Teachers reads two different forms of the text – one written in the active voice and the other written in the passive voice. Ask students to explain which is the more formal text and why (Refer to examples opposite) Teacher explains: Text A the orientation to the person undertaking the experiment – the scientist – the doer of the action, e.g. we added, our hypothesis was supported Text B the orientation is to the 'science' – the done-to of the action – the receiver, e.g. the popcorn kernels were added, the hypothesis was supported Teacher shows sentence strips of examples from experiments and students 	Text examples: Active voice: Text A: When we added the popcorn kernels to the hot pan we observed that they began to expand and they made a popping noise after two minutes. (orientation to the person undertaking the experiment – the scientist – the doer of the action) Passive voice: Text B: When the popcorn kernels were added to the hot pan they began to expand and made a popping noise after two minutes. (orientation to the 'science' – the done-to of the action – the receiver)	 Observe students participating in the class discussion and categorising statements according to active and passive voice. Analysis of student work
 categorise according to active and passive voice, e.g. You pour the boiling water into the bowl (Active) The pan is placed on the stove (Passive) Students together change active statements into passive statements e.g. You place the solid chocolate chips into the bowl (Active). The chocolate chips are placed into the bowl (Passive). Students with a partner complete worksheet activity in which they complete active and passive statements. 		 Observe how the students in pairs jointly complete the worksheet activity. Are they able to complete the active and passive statements?
AL Focus Group		Sorting task
• Students revisit active and passive voice through categorising statements linked to their focus text "Melting Chocolate' e.g. You stir the melting chocolate to speed the melting process (Active). The melting chocolate was stirred to speed the melting process. (Passive).		 Observe EAL students' ability to categorise statements according to active and passive voice and their explanations as to why.

Whole Class	Function	Observation
	 Observing what happened Analysing and interpreting Expressing cause and effect Checking against the hypothesis as the end of the experiment Linguistic Structure Description – Observation. What did we see happen? Conclusion – Generalisation. What did we find out? Linguistic Features Verb/process – Action verbs/sensing/perceiving/ relating verbs Simple past tense Noun/participant, – Specific/General (Technical) Adverbial/circumstances (time/place/manner) Passive voice	 Observe students as they contribute their ideas to the description and conclusion stage of the jointly constructed text. Are they able to use the metalanguage to identify and describe the stages in the text? Are they able to use the linguistic features such as: Simple past tense action, sensing and relating verbs, specific and technical nouns adverbials of time, place and manner passive voice? Analysis of student work Observe how the students in pairs jointly construct the Description and Conclusion stage on the 'Changing Colours' experiment. Are they able to use the linguistic features correctly? Colour changing (Figure 12) Title: Colour changing Am: To see what happens when two primary colours (yellow & blue) are Hypothesis: That the two colours will Procedure: Equipment and materials Fill Add Conclusion: The colours in the water changed Conclusion: The hypothesis was supported because

EAL Focus Group	Function	Analysis of student work
 At Focus Group Shared reading of science report 'Melting Chocolate' with Description and Conclusion added (Figure 13). Melting Chocolate (Figure 13) Melting Chocolate Aim: To see what happens when a bowl of solid chocolate bits is placed over a bowl of boiling water Hypothesis: The bowl of solid chocolate bits will become a liquid when placed over a bowl with boiling water Procedure: Equipment and materials two bowls a packet of solid chocolate baking bits boiling water large spoon Steps Pour boiling water into one bowl Put all of the solid chocolate bits sus placed over the bowl with boiling water Stir solid chocolate bits to speed the melting process Description Once the bowl of solid chocolate bits solve was placed over the bowl with boiling water the chocolate bits solved the melting process Description Once the bowl of solid chocolate bits solwly melted after five minutes. It started as a solid and became a liquid. The chocolate bits were put into a bowl and then placed over another bowl of boiling water; it changed from a solid to a liquid. This occurred because the molecules inside the chocolate bits because a liquid. When solid chocolate bits were put into a bowl and then placed over another bowl of boiling water; it changed from a solid to a liquid. This occurred because the molecules inside the chocolate bits because the molecules inside the chocolate was placed in a refrigerator for twenty-four hours it became a solid because the molecules singlet packed as they were heated and therefore it turned into a liquid. When melted chocolate was placed in a refrigerator for twenty-four hours it became a solid because the molecules slowed right down and it kept its shape. • Students sequencing cut up text using the complete structures of science experiment report text – Title, Aim, Hypothesis, Procedure, Description, Conclu	 Observing what happened Analysing and interpreting Expressing cause and effect Checking against the hypothesis as the end of the experiment Linguistic Structure Description – Observation. What did we see happen? Conclusion – Generalisation. What did we find out? Linguistic Features Verb/process – Action verbs/sensing/perceiving/relating verbs Simple past tense Noun/participant, – Specific <i>e.g., a popping noise, the white colour</i> General (technical) – an irregular shape, a gas, the hypothesis Adverbial/circumstances – (time/place/manner), e.g. after two minutes, to the hot pan, to a white colour Passive voice – e.g. were added, was taken off 	 Sequencing task: Were the students able to sequencing cut up text with a focus on structure Observation Observe students as they contribute their ideas to the jointly constructed text. Are they able to use the metalanguage to identify and describe the stages in the text? Are they able to use the linguistic features such as appropriate tense, verbs, nouns, adverbials of time, place and manner and passive voice?

Independent Construction

In the 'independent construction' stage the students plan and construct their own science experiment report text applying newly acquired knowledge. The students then present this orally to an audience as the summative task for this topic.

The teacher supports and guides students in:

- Applying new understandings of topic and science experiment report text
- Provides explicit feedback on how to improve the text.

	Linguistic structure				Peer and sen-assessment -
Independently write a science experiment report and present this as a spoken text to	Title – Name of investigation/experiment				experiment report
peers at school science expo	Aim – Investigative question.				Students self-assess
• Ctudente recepteb en oversiment vikisk demonstrates skonse in westter to	Hypothesis – Prediction				success criteria
 Students research an experiment which demonstrates change in matter to 	Procedure – Steps				 Peer buddy provides
present at science expo	Description – Observation				using the success crit
Written text:	Conclusion – Generalisation				Teacher observe stu
• Discuss Rubric: Self and Peer feedback of written Science Experiment Report					in providing verbal fe
(Figure 14). (Elicit ideas for success criteria from students or provide criteria but	Linguistic features				texts.
ensure that students understand each point in the criteria).	Verb/process, Action verbs, sensing/perce	iving ve	erbs,	relating	
 Individually students plan, draft, revise and edit text using the rubric 	verb	C		Ū	Analysis of work Teacher/
 Peer allocated to revise and edit their text using the rubric 	Present tense/Imperatives (Procedure)				
C C	Future tense (Prediction and developing a l	Hypothe	esis)		 Teacher discusses with
Student uses feedback to redraft text	Past tense using some passive voice (Desci				using criteria sheet. Te
Student publishes their written text	Conclusion)				the student on what t
•	Noun/participant – Specific/General				their writing, and the
EAL Focus Group	Adverbial circumstances – Time/place/ma	nnor			writing and how.
 Students write their science experiment report on 'Melting Chocolate' which 	Self and Peer Feedback for written Science experiment report (
they will present at the school science expo.					Portfolio
		Yes	No	Comments	
An example of an EAL student's written published text	Authorial I/You have included the Title of the experiment				 Students publish their
	I/You have included an Aim and began the Aim with ' <i>To</i>				editing it from feedba
The Chocolate Science Report Aim: To see if the solid chocolate will melt when	see'				then retained in their
Aim: to see it the solid chocolate will mer when placed on a bowl of boiling hot water. Hypothesis: That the scientific solid chocolate	Use of future tense verbs I/You have included a Hypothesis and began the Hypothesis				
will melt when it is placed on top of boiling hot water.	with 'That the'				
Procedure: 1. Get two plates and some hot water in a kettle.	Use of future tense verbs I/You have included a Procedure of the experiment step by				
2. Pour the hot water into one of the plates. 3. Put another plate and put some chocolate	step, e.g. 'Pour the water into the cup.'				
inside. 4. Put the plate of chocolate on top of the plate	Commences each step with an action verb in				
with hot water. 5. Get a spoon and mix the chocolate	the present tense I/You have included a Description of what happened during				
Description: When the chocolate got stirred it started melting. It changed from a solid to a	the science experiment.				
liquid. Conclusion: The hypothesis was supported	 Use of past tense verbs Use of technical nouns 				
because the solid chocolate melted when placed on top of a plate of boiling hot water.	Use of passive voice				
	I/You have included a Conclusion which includes whether				
	 the Hypothesis was correct or not. Use of past tense verbs 				
	Use of technical nouns				
	Use of passive voice Secretarial				
	I/You have included full stops				
	I/You have included capital letters.				
	I/You have checked the spelling I/You have started each part of the science report on a new	$\left \right $			
	line on the page, e.g.				
	Title:				
	Aim: Hypothesis:				
	Procedure:				
	Description:				
	Conclusion: Editing process				
	I/You used self-reflection, peer feedback and teacher				
	feedback to improve my/your work				
	Two things I liked about my/your science experiment report One thing you could do to improve your science experiment				

Linguistic structure

- s their writing using the
- es feedback on their writing riteria
- udents as they work together feedback on the written

/student conference

- th student their written text Teacher provides feedback to they are managing well in next step in improving their
- ir text after revising and ack given. Work samples are r learning portfolios.

Whole Class

Oral text

- Discuss Rubric: Self and peer feedback of oral science experiment report (*Figure 15*). (Elicit ideas for success criteria from students or provide criteria but ensure that students understand each point in the criteria).
- Students plan and practice their presentation.
- Students present their experiment at the school Science Expo and peer chosen to assess their presentation.

Self and peer feedback of oral science experiment Report (Figure 15) P Yes No I/You had good eye contact I/You spoke clearly and loudly I/You used body language and gestures well to communicate with the audience Image: Content My/Your presentation was well organised Image: Content My/Your presentation was well organised Image: Content I/You shared the Aim of the experiment and began the Aim with the trade of the shared the Hypothesis and began the Hypothesis Image: Content

I/You shared the procedure of the experiment clearly, step by

Place a piece of cardboard on top of the cup

I/You shared the description of what happened during the science

Pour the water into the cup

I/You shared the conclusion which included whether the

Two things I liked about my/your presentation

One thing you could do to improve your presentation

step, e.g.

experiment.

1. 2.

Hypothesis was correct or not.

Peer and self-assessment and teacher feedback – Oral Science experiment report

- Teacher videos EAL students' presentations.
- Students self-assess their oral presentation using the success criteria
- Peer buddy provides feedback on the student's oral presentation using the success criteria
- Observe students as they work together in providing verbal feedback on the oral presentations.
 - Note how well students demonstrate their understanding of the experiment as they respond to questions and sequence ideas and explain what happened
 - Note how accurately the students use the linguistic features to explain the process of the experiment.
 - Question and provide immediate, on the spot verbal feedback as necessary.

Analysis of work *Planned Observation – Oral language analysis (post-test).*

Teacher/student conference.

- Teacher discusses with student their oral presentation text using criteria sheet and video.
- Teacher provides feedback to the student on their strengths and the next step in how they can improve their oral presentation.

Reflection on Learning intentions

 Ask students to reflect on the learning intentions at the commencement of the unit and to share what they feel they have achieved.

Unit evaluation:	Unit name:
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Date:

General evaluation	The students enjoyed the topic and the overall engagement level was very high. Many of students worked at home conducting				
Were the students interested in the topic?	their own experiments and writing experiment science reports. They requested a website to be created by the teachers, so they could ask questions, make requests for science experiments that had not been conducted at school and revisit				
Did planned activities need to be modified for EAL students? Why?	experiments undertaken in class.				
Which teaching strategies were particularly successful for mainstream	The whole class benefitted from explicit teaching of scientific vocabulary and terms.				
and EAL students?	The teachers identified the need to develop a series of DVD's and accompanying written texts based on scientific experiments as they had difficulty locating appropriate texts which matched both the structure of the hybrid text, and the age and stage of the students. The linguistic structure and features were constantly recycled throughout each lesson and this enabled all students to independently write and present their own science experiment text at the expo.				
	The targeted EAL group received extra scaffolding, participating in small group EAL focus sessions, which provided greater exposure to visuals and hands on activities, repetition of vocabulary and linguistic structures and features to enhance understanding. They also constantly revisited the key mentor text 'Melting Chocolate', as they were presenting this report at the expo.				
Content learning goals	The students confidently and independently wrote and presented a science experiment report, using technical language and				
Were the topic goals achieved?	demonstrating an understanding of the key concepts about matter and the changes that occur during science experiments. The students high level of motivation was evidenced by their desire to conduct further science experiments at home, sharing				
Did the topic lead to worthwhile learning?	their knowledge with their peers. and posting questions on the website.				
English language learning goals	Students' literacy needs were identified and assessed through formal and informal assessment data, which included pre-and				
Were general English language learning needs highlighted by the unit?	post-oral and written pieces. Teaching the structure and linguistic features of the hybrid text was a challenge, as it comprised several different text types and tenses. This was achieved by explicitly planning and scaffolding activities around the Teaching and Learning Framework.				
Was there a balance between written and spoken texts?					
	The students demonstrated in their final written and oral presentations that they were able to use the correct structure and linguistic features. The transfer of knowledge was evidenced later in the year, when students were directed to write a science experiment report or selected to do so in free choice/writer's notebook sessions.				
EAL considerations	The science experiment report was considered to be a high challenge task for the EAL students. The 'hands on' approach				
How successfully did the unit involve the EAL students?	enabled the EAL students to successfully participate. The specific EAL literacy needs were determined by placing the students on the Victorian 'EAL Developmental Continuum P-10'. Following the whole class activities, the classroom teacher				
Which English language needs were identified as a priority for future units?	provided additional scaffolded activities for the EAL focus group. These highlighted, reinforced and explicitly taught the linguistic structures and features of a science experiment report. On reflection, explicitly teaching oral language presentation skills to EAL students would be a priority for future units				
Ideas for further units/activities	Specific content vocabulary, tenses, passive voice, verb/process, adverbial circumstances				
What language focuses need to be targeted again in future units?	Many topics complement the unit given the nature of the hybrid text.				
What further topics will complement this unit?					
Assessment for learning strategies	Students had the opportunity to complete rubrics and give peer feedback.				
Did the chosen assessment strategies ensure students achieved the unit learning goals? Did the assessment feed into planning and teaching?	The assessment, as well as student work samples, gave the teacher a clear indication of the learning needs and this was addressed in small groups.				
Were students involved in the assessment process?	Students were able to use the assessments to improve their own learning.				
Were the success criteria for the focused analysis assessment tasks clear? Were students able to use criteria to provide feedback to their peers? Were students able to use feedback from assessment to improve their learning?	The teachers developed the assessment rubrics and on reflection decided it would have been better to develop these with the students.				