# C. Unit Plan

# **Year 12 Industrial - MULTIMEDIA**

Cours	e Multimedia	Teaching Term: TERM 1 (Term 4)
Focus	Area: Major Project - Design Management & Communication	Unit Length: 6 weeks
Learn	ing Outcomes	
H3.1	demonstrates skills in sketching, producing and interpreting drawings	
H3.2	selects and applies appropriate research and problem solving skills	
H3.3	applies and justifies design principles effectively through the production o	f a Major Project
H4.2	explores the need to outsource appropriate expertise where necessary to	complement personal practical skills
H4.3	critically applies knowledge and skills related to properties and characteri	stics of materials/components
H5.1	selects and uses communication and information processing skills	
H5.2	examines and applies appropriate documentation techniques to project m	anagement
H6.1	evaluates the characteristics of quality manufactured products	
H6.2	applies the principles of quality and quality control	
Asses	ssment task	Due Date
Studer made of	ative - Podcast of progress made on HSC Major Project. Its are to create a 5 minute podcast covering all progress that has been on their Major project in the last 8 weeks. Students will upload podcast to e and submit link to classroom.	Week 8 of Term 1, Year 12.

W e e k	Students learn about - application of	Students learn to  - consider legal and	Integrated Teaching and Learning Activities & Learning Goals  Ss explore the websites provided in the	Teaching & Learning (Numeracy, Literacy & ICT)  Literacy	Catering for Diverse needs  The Use of Padlet	Resources  https://padlet.
	design principles in the production of the Major Project:  - research - design development - sketching and idea generation - quality and ongoing evaluation - prototyping, modelling and testing - production and working drawings  - ethical use - ease of copying, manipulation and incorporating	ethical issues in the development of multimedia presentations  - use computers, associated materials and accessories safely and responsibly  - explain and justify decisions made during the designing/modifying and planning stages of the Major Project - refine skills in interpreting and creating drawings relevant to the Major Project	resources section to create their own understandings of Copyright, Intellectual Property.  Ss will research the differences of ethical and legal in the appropriate usage of multimedia materials.  Using the posters around the room regarding possible risks of long term use of computers. Ss will discover the safe use of computers  Ss will familiarise themselves with the proper terms involving using computer equipment safely. Ss are to pay close attention to issues such as eye stain , neck and back injuries, excessive use and Repetitive Strain Injury  Ss are made aware of the Podcast Assessment Task due in week 8 which is to document the Major Project progress due week 8. Ss have the chance to ask questions and clarify any concerns.	UnT11- Ss critically evaluate visual elements in multimedia texts.  LiS8 - identifies and paraphrases key points of a speaker's arguments  UnT9 - summarises the text identifying key details  SpG13 - uses spelling rules and generalisations, word origins and visual memory to spell unfamiliar words  (ACARA, 2020)  ICT  Recognise intellectual	Visual Learners: Allows for visual information layout in different colours and fonts helping them emphasise key points and categorising information.  Auditory Learners: Due to users being able to upload audio files, it allows Ss to listen to spoken explanations and instructions.  Kinaesthetic Learners: Padlet allows Ss to physically interact with the screen through drag and drop, and resizing images.  Read/ Write Learners:	com/  http://amow.b oardofstudies. nsw.edu.au/  http://www.ipa ustralia.gov.a u/ http://www.db cde.gov.au  http://www.co pyright.org  Copyright in aus doc  http://www.grif fith.edu.ausaf e_use_compu ter

multimedia objects	- author a multimedia Major	Ss are to begin work on their Major Project. Ss are required to prepare an A3 portfolio which	property Level 6	Allows Ss to write and engage with written	Assessment Criteria
- copyrights and	Project	will include	Define and plan	information and the option	
multimedia		- Statement of Intent (specify design	information searches	to customise fonts to their	
(Board of Studies	- prepare all	direction),	Level 6	preference to enhance	
NSW, 2008)	necessary sketches	- timeline (Gantt chart).		readability.	
	and working		Generate ideas, plans		
	drawings required	These are live documents so are still in draft	and processes Level 6	Verbal Learners:	
	for the production of	stages.		Verbal learners can benefit	
	the Major Project		(ACARA, n.d.)	from listening to spoken	
				explanations and	
	(Board of Studies			presentations related to the	
	NSW, 2008)			content being shared on	
				Padlet. This auditory input	
				can enhance their	
				understanding and	
				retention of information.	

# Adjustments

Differentiated resources

- Below Standard: Provide simplified definitions of Copyright, Intellectual Property, and ethical/legal use with posters.
- Above Standard: Offer additional resources such academic papers discussing copyright law for deeper understanding.

# Scaffolding

- Below Standard: Break down the task of documenting definitions on Padlet into smaller steps with guided templates or fill in the blank prompts.
- Above Standard: Offer optional advanced challenges like analysing real world scenarios such as recent copyright infringement cases.

## Adjusted assessment criteria

- Below Standard: Modify expectations for the podcast by focusing on the clarity of ideas rather than complex design elements.

- Above Standard: Ss can create multimedia presentations or interactive websites which encourages creativity in expression.

## Varied support options

- Below Standard: Offer peer tutoring sessions or additional video tutorials for ergonomics and eye strain prevention for Ss struggling with computer use conventions.
- Above Standard: Ss will be provided with access to online forums to dive deeper into computer safety topics.

## **Pedagogies**

#### Constructivism

- Ss actively engage in constructing their understanding of intellectual property, copyright, and appropriate use of multimedia elements.
- Emphasises active engagement and sense making rather than passive reception of information.
- Encourages collaborative learning and reflection to deepen understanding.

## Integrative

- Focuses on developing critical thinking skills for analysing, evaluating, and creating media messages.
- Empowers Ss to critically evaluate the credibility and reliability of multimedia materials.
- Provides opportunities for Ss to create their own multimedia presentations, applying media literacy skills in practical contexts.

#### **Assessment**

### Formative Assessment

- Padlet
- Observing discussions during the review of safe computer use posters.

# Diagnostic Assessment

- Assessing understanding of technical language conventions during computer safety discussions.
- Evaluating comprehension of project requirements and criteria.

#### Informal Assessment

- Review initial drafts of A3 portfolios and Statements of Intent.

W e	Students learn	Students learn to	Integrated Teaching and Learning Activities & Learning Goals	Teaching & Learning (Numeracy, Literacy &	Catering for Diverse needs	Resources
е				ICT)		
k						

2	<ul><li>selection of</li></ul>	- Investigate and	T will individually discuss the Statement of	Literacy	Storyboarding	Storyboard
	appropriate	use a range of	Intent with every Ss. Ss will then discuss their	InT1 - shares simple		booklets
	materials,	multimedia	statements with peers, facilitating Assessment	ideas with peers	Visual Learners:	
	processes and	components in	for Learning.		Allows for a visibly	
	resources	the		CrT10 - uses discipline	structured framework to	Past Ss
		development	Ss are to review the Multimedia design process.	specific terminology to	organise ideas visually and	portfolios
	<ul> <li>development of</li> </ul>	and publishing		provide accurate and	allows them to use their	
	time and finance	of the Major	Plicker to revisit what Ss require in folio:	explicit information	creative ability.	
	plans	Project	- Statement of Intent,			https://podcas
		- apply	- Brief	Numeracy	Auditory learners:	ters.spotify.co
	(Board of Studies	principles of	- Investigation	MeT4 - constructs	Allows Ss to focus on	m/resources/l
	NSW, 2008)	design in the	- Research	timelines using a time	developing a clear and	earn/how-to/s
		planning	- Idea Creation (storyboarding)	scale.	engaging storyline with	tart-a-podcast
		and	- development		attention to dialogue,	
		production	- testing	(ACARA, 2020)	narration, and sound	Plicker on
		of the Major	- creating the structure		effects.	HSC Folio
		Project	- functional aspects	ICT		
		- competently	- place holders	Generate ideas, plans	Kinaesthetic Learners:	
		plan all	- Alpha and Beta testing	and processes Level 6	Involves physically	
		processes and	- integration of media		sketching or arranging	
		stages required	- Evaluations	Generate solutions to	visual elements onto a	
		to complete the	<ul> <li>Publication and distribution.</li> </ul>	challenges and learning	template allowing them to	
		Major Project	(Board of Studies NSW, 2008)	area tasks Level 6	engage directly with the	
		- produce			creation process	
		storyboards to	Ss will begin sketching then annotating	Collaborate, share and		
		plan	storyboards. T will provide feedback on Ss	exchange Level 6	Read/Write Learners:	
		presentations	ideas.		Includes annotations which	
		and the Major		(ACARA, n.d.)	provide read/write learners	
		Project			with written information	
		_				

Ss will partake in individual research to being about the content and forming timelines of project development (Board of Studies context of each visual NSW, 2008) (Production timelines and detailed timelines) element, allowing them to T to review and provide feedback to Ss. process and understand the storyboard more Ss will engage in storyboard creation, followed effectively. by teacher feedback and discussion. **Verbal Learners** Research for project development, including Involves the creation of a detailed timelines and production schedules, script, which involves should be completed by now. The teacher will writing dialogue, narration, review and provide feedback to students. and descriptions of audio elements. Verbal learners Ss will research the design principles that are can leverage their involved in designing products. In a table, Ss strengths in written and will document a review of a minimum of 4 verbal communication to existing products. develop engaging and effective scripts for There will be a class discussion about the types multimedia content. of software and their uses within multimedia Ss will participate in a discussion to clarify the targeted expectations for their HSC project. Ss will have the opportunity to view some past Ss portfolios. T will lead a workshop on Podcasting (video in resources) and revisit of assessment criteria.

## **Annotations**

## **Adjustments**

Individualised Statement of Intent check ins

- Below Standard: Visual aids or simplified templates for Ss needing extra support in formulating their statements.
- Above Standard: Advanced prompts such as additional readings for Ss to develop more intricate project visions.

#### **Differentiated Assessment Tools**

- Below Standard: Simplified rubrics or checklist of essential components.
- Above Standard: Advanced assessment options such as self assessment reflections or peer evaluations for Ss capable of higher level analysis.

### Varied Research Opportunities

- Below Standard: Guided research resources and list of recommended resources for Ss to gather information for their projects.
- Above Standard: Encourage independent research projects or advanced research tasks for high achieving Ss, such as investigating emerging trends or innovative techniques in multimedia design.

#### Flexible Instructional Methods

- Below Standard: Small group discussions or one on one guidance as Instructional support for Ss struggling with understanding design principles or software usage.
- Above Standard: Invite professionals from the multimedia industry to discuss cutting edge software tools and techniques.

## **Pedagogies**

Project Based Learning (PBL)

- Engages Ss in authentic, real world projects.
- Facilitates collaboration and peer learning through sharing statements of intent and project development.
- Provides hands on, inquiry based learning activities throughout the multimedia design process.
- Promotes deeper understanding of multimedia concepts by applying them in meaningful contexts.

# Assessment for Learning (AFL)

- Utilises assessment to support and enhance learning throughout the instructional process.
- Provides essential reminders and detailed timelines to guide Ss project development.
- Offers ongoing feedback and discussions to monitor student progress and address misconceptions.
- Uses tools like Plicker to assess student needs and provide timely feedback.

#### **Assessment**

Formative Assessment

- Plicker to check Ss understandings of requirements for their folio.

#### Informal Assessment

- Review and feedback on detailed project timelines to assess planning and time management skills.
- Sketching and annotating storyboards with T feedback.
- Discussion of skills, expectations, and software usage.

#### Peer Assessment

- Peer sharing of statements of intent and feedback.
- Collaborate in discussing podcasting skills and ongoing evaluations.

#### Self Assessment

- Reflect on progress and understanding at different project stages.
- Evaluate own work against provided assessment criteria.
- Self assess skills and understanding in podcasting and other tasks

## **Adjustments**

Individualised Internet Search Strategies

- Below Standard: Structured guidance on basic search techniques, such as using simple keywords and refining search queries.
- Above Standard: Introduce advanced search operators like Boolean operators for Ss to refine searches further.

## Diverse Project Help Options

- Below Standard: Templates or checklist for Ss to include troubleshooting tips and frequently asked questions in their project help documentation.
- Above Standard: Ss may explore by creating screencasts demonstrating specific project features.

# Varied Multimedia Tools for Concept Reinforcement

- Below Standard: Structured tutorials using Adobe Animate to reinforce differences between vector and bitmap graphics.
- Above Standard: Challenge Ss with advanced exploration of Adobe Animate for creating complex animations or interactive projects.

W e	Students learn	Students learn to	g	Teaching & Learning (Numeracy, Literacy &	Catering for Diverse needs	Resources
е				ICT)		
k						

3	- appropriate	- produce	To gain better knowledge of how to create	Numeracy	Adobe Animate	Google
	software relevant to	multimedia	filtered search strings, Ss are to read at the	IRD2 - displays and		
	the Major Project in	elements, identify	Help sections of Bing and Google.	describes one variable	Visual Learners	Quizlet on
	the areas of:	scope of authoring		data in lists or tables	Its panels, menus, and	HELP
	<ul><li>publishing</li></ul>	software, produce	Ss should create HELP pages for their projects	IRD3 - collects, records	tools are designed to be	documentatio
	<ul><li>video creation/</li></ul>	and evaluate	either through a dedicated website or via a link	and displays one variable	easily understood and	n
	capture/editing	prototypes	in their folio.	data in a variety of ways	navigated by visual	
	<ul><li>sound</li></ul>			such as tables, charts,	learners. The layout of the	Adobe
	creation/	- solve problems	Ss are to join a quizlet to check their	plots and graphs using	workspace allows users to	Animate
	capture/editing	through accessing	understanding of what is needed in HELP	the appropriate	see their designs and	
	<ul><li>animation</li></ul>	and using online	documents.	technology.	animations in real time as	Adobe
	creation/	help and manuals			they work, which can aid	Photoshop
	capture/editing		Adobe Animate will be utilised to visually	Literacy	comprehension and	
	– image	(Board of Studies	debate the difference between Bitmap Graphics	LiS7 - selects	learning.	Google Docs
	creation/	NSW, 2008)	and Vector Graphics. Ss are to discuss their	appropriate listening		
	capture/editing		findings and appropriate uses of both.	strategies for planned	Kinaesthetic Learners	Finder on
	<ul><li>text creation/</li></ul>		T will lead an introduction into Copyright and	and unplanned situations	Due to it offering such a	Мас
	capture/editing		ethical use issues within multimedia.		variety of drawing and	
	– 2D/3D		ethical use issues within multimedia.	UnT5 - draws obvious	design tools for creating	
	drawing		Ss will select a random graphic to save from	inferences by integrating	characters, backgrounds,	
	documentation		Adobe Photoshop in various formats including	print, visual and audio	and other visual elements.	
	<ul><li>online help</li></ul>		BMP, GIF, TIFF, PNG, and JPEG. Ss are to	aspects of simple texts	Kinesthetic learners can	
	and manuals		maintain the same pixel size and resolution and		explore these tools by	
	– user		examine each file, making observations in	HwK7 - uses a range of	physically drawing with a	
	documentation		google docs on the graphic quality.	digital applications to	tablet or stylus, allowing	
			3	compose and edit	them to translate their	
	Text		Using Finder, Ss will locate the graphics file and		movements into digital	
	fonts:		document the file size, pixel size, print size,	(ACARA, 2020)	artwork directly.	
			colour depth, resolution and screen size in the			

<ul><li>serif, sans</li></ul>	doc. T to lead discussion on the relationship	ICT	Auditory learners
serif,	between these factors.	Define and plan	These Ss will benefit from
decorative		information searches	incorporating sound
formatting:		Level 6	effects, narration, or
<ul><li>bold, italics,</li></ul>			background music into
underline,		Select and evaluate data	their animations to
alignment,		and information Level 6	reinforce learning
indents,			concepts.
bullets,		(ACARA, n.d.)	
numbers,			Verbal Learners,
size, colour,			It allows users to create
stroke and fill,			and manipulate text
headings,			directly within their
subheadings,			animations. Verbal learners
formatting			can benefit from this
paragraphs			feature by incorporating
and			textual elements such as
documents			titles, subtitles, captions,
pagination			and dialogue directly into
			their animations.
(Board of Studies			
NSW, 2008)			Read/Write Learners
			These Ss often benefit
			from visual aids such as
			bold, italic, underline, and
			different font styles. This
			software supports text
			formatting, enabling users
			to emphasise specific

		words or phrases to aid	
		with comprehension.	

## **Pedagogies**

Inquiry Based Learning (IBL)

- Encourages active student engagement and critical thinking skills.
- Guides Ss to read help documentation at Google and Yahoo for better Internet searching.
- Promotes self directed inquiry and problem solving.
- Ss create help documentation for their major project, fostering ownership of learning and peer support.

# **Experiential Learning**

- Focuses on hands on, real world experiences.
- Uses Adobe Animate to demonstrate differences between vector and bit mapped graphics.
- Provides tangible, interactive learning experiences.
- Introduces ethical use and copyright issues through practical application in Adobe Photoshop.
- Develops critical thinking skills and understanding of multimedia production and ethical considerations.

#### **Assessment**

Informal Assessment

- Observing application of search strategies learned from Google and Yahoo Help.

#### Formative

- Quizlet

#### Self Assessment

- Self assessing understanding and application of vector vs bitmap graphics.

## **Adjustments**

Individualised Internet Search Strategies

- Below Standard: Structured guidance on basic search techniques, such as using simple keywords and refining search queries.

- Above Standard: Introduce advanced search operators like Boolean operators for Ss to refine searches further.

# Diverse Project Help Options

- Below Standard: Templates or checklist for Ss to include troubleshooting tips and frequently asked questions in their project help documentation.
- Above Standard: Ss may explore by creating screencasts demonstrating specific project features.

## Varied Multimedia Tools

- Below Standard: Structured tutorials using Adobe Animate to reinforce differences between vector and bitmap graphics.
- Above Standard: Challenge Ss with advanced exploration of Adobe Animate for creating complex animations or interactive projects.

W e e k	Students learn about	Students learn to	Integrated Teaching and Learning Activities & Learning Goals	Teaching & Learning (Numeracy, Literacy & ICT)	Catering for Diverse needs	Resources
4	Graphics	- investigate and	T demonstration of Blender	Numeracy	Blender	www.blender.
	• graphic images:	competently use		PrT6 - uses ratio and		<u>org</u>
	vector, bitmap	a range of	T will inform Ss about Clip Art libraries and	scale factors to enlarge	Visual Learner	
	• resolution: image	suitable software	Adobe's collection of copyright free stock	or reduce the size of	Learners can easily	https://www.a
	size, colour	in the creation,	images, as well as the risks of copyright	objects	navigate through different	dobe.com/leg
	depth, binary	editing and	infringement associated with using images		panels, menus, and	al/permission
	digits (bits), eg	publishing of the	sourced from the internet.	Literacy	options using icons, colour	<u>s.html</u>
	8-bit, 16-bit,	Major Project		InT3 - asks relevant	cues, and graphical	
	24-bit	- apply a wide		questions for clarification	representations.	Magazines
	• file size: in	range of industry	To grasp the printing process, Ss will scan a	or to find out others'		
	relation to screen	terminology,	photo and an image from a magazine at a high	ideas	Auditory Learner	Photos
	size and colour	techniques and	resolution. Ss are then to layer the two images		This software offers audio	
	depth	processes	on top of each other using blending and	UnT5 - uses visual and	feedback and cues to be	Scanner
	• file formats: TIFF,	<ul> <li>utilise the</li> </ul>	merging techniques. Ss can utilise auto correct	auditory cues to build	provided on the visual	
	BMP, PCX/PICT,	features of a	tools and filters to increase the aesthetics of the	meaning.	feedback helping these Ss	USB/ Hard
	JPEG, GIF, PNG		final image.		learn through multiple	drive

	• importing	range of storage	Ss may overlay bitmap text onto the image to	(ACARA, 2020)	sensory channels.
	images: clip art,	devices	observe the effect of anti aliasing. Ss may play		
	screen capture,	- obtain, modify	around with the image by using colour		Kinaesthetic Learner
	scanning	and use a range	adjustment, skew and stretch tools.	ICT	As Blender is a 3D space,
	<ul><li>graphics</li></ul>	of pre-existing		Manage digital data	its hands-on approach
	tablet	components	Ss will learn the importance of backing up their	Level 6	provides kinesthetic
	<ul><li>cameras</li></ul>	- obtain, create	work by creating copies on the server in their		learners with the
	- still	and modify	personal devices, USB or portable hard drives.	Understand computer	opportunity to manipulate
	- video	images, sound		mediated	objects, change settings,
	<ul><li>image</li></ul>	and text		communications Level 5	and see immediate visual
	libraries	- prepare			feedback.
	<ul><li>stock</li></ul>	documentation to		(ACARA, n.d.)	
	photographs	support the			Verbal Learners
	object layering:	development of			Through the demonstration
	text, other	the Major Project			of how to use Blender,
	images,	- compose camera			verbal learners can listen
	· image	shots and			to the step by step process
	enhancements:	operate still and			of using this software to
	<ul> <li>filters, special</li> </ul>	video cameras			then apply it to their own
	effects,				learning.
	anti-aliasing,	(Board of Studies			
	<ul><li>image</li></ul>	NSW, 2008)			Read/ Write Learners
	manipulation:				Blender has extensive
	<ul><li>stretch, skew,</li></ul>				documentation in written
	<ul><li>colour</li></ul>				format about guides and
	adjustment				tutorials which provides
	(Board of Studies				these Ss the opportunity to
	NSW, 2008)				use their strengths to
					enhance their learning.

## **Pedagogies**

## Constructivist Learning

- Emphasises active engagement and hands on experiences to construct knowledge.
- Ss actively participate in Blender demonstrations to explore 3D modelling and animation.
- T raises awareness about copyright free image collections and copyright infringement, fostering ethical decision making.
- Ss engage in experiential learning and develop a deeper understanding of multimedia tools and ethical considerations.

### **Authentic Learning**

- Provides real world tasks mirroring professional practice in multimedia production.
- Tasks include scanning images, applying filters, and creating multimedia compositions.
- Learning to back up work and developing a PC specification for multimedia reflects real world considerations.
- Prepares Ss for future careers by immersing them in authentic learning experiences and fostering transferable competencies.

#### **Assessment**

#### Informal Assessment

- Observing engagement and understanding during Blender demonstration.
- Assessing comprehension of copyright issues through discussion.

#### Formative Assessment

- Evaluating understanding of digital/analog video and photography through practical tasks.
- Assessing image manipulation skills and creativity.
- Evaluating application of image editing techniques.

# **Adjustments**

## **Demonstration and Explanation**

- Below Standard: Provide step by step demonstrations with simplified language and visuals for Blender, for easier comprehension.
- Above Standard: Introduce advanced Blender features or keyboard shortcuts for Ss interested in exploring further.

#### Varied Instructional Resources

- Below Standard: Provide a guide for Ss to follow when sourcing images to avoid copyright infringement.
- Above Standard: Encourage independent research on copyright laws and licensing agreements for Ss interested in exploring legal implications.

## **Differentiated Practical Activities**

- Below Standard: Structured activities for practising image manipulation in Photoshop, with broken down instructions.
- Above Standard: Challenge Ss to create original digital artworks using advanced filters and effects.

# Tailored Technology Exploration

- Below Standard: Providing a video tutorial for Ss to follow when backing up their work to different locations.
- Above Standard: Discuss benefits and drawbacks of different backup methods, encouraging exploration of alternative solutions.

W e e k	Students learn to about Students learn to	Integrated Teaching and Learning Activities & Learning Goals	Teaching & Learning (Numeracy, Literacy & ICT)	Catering for Diverse needs	Resources
5	Audio  • sound waves:     analogue and     digital wave     patterns  - volume,     frequency  • converting     analogue to     digital sound  • sampling:     sample rate,     sample size,     8-bit, 16-bit  • relationship to     file size: file     compression  - select from a wide range of industry techniques and apply them in the production and presentation of the Major Project  - obtain, create and modify images, sound and text  (Board of Studies NSW, 2008)	Investigate what sound is (website idea in resources)  Ss are to use the GarageBand app and use the microphone function to record an analog sound. Draw a sound wave, discuss the clarity of the sound, sampling sound and how analog can be converted to digital.  T to lead discussion of the differences between 8-bit vs 16-bit sound. Save recorded files in various sample rates, bit rates, formats (MP3, WAV) and sample sizes. Compare file sizes and sound quality.  Debate the use of MIDI. (websites available in resources to help debate)	Numeracy PrT5 - identifies, compares, represents and solves problems involving different rates in real world contexts.  Literacy CrT9 - includes salient visual and audio features to complement written ideas.  CrT10 - creates informative texts to explain and analyse.	Visual Learners GarageBand has a visual interface with many graphical representations of musical instruments, virtual knobs, sliders, and buttons, allowing these learners to easily grasp concepts by observing these elements.  Auditory Learner Learners can directly interact with virtual instruments, loops, and	www.howstuff works.com  Garageband on Apple  http://www.so undswell.co.u k/pages/midi debate.htm  https://www.c onstruct.net/e n/forum/const ruct-3/how-do

•	file formats:	T demonstration of video editing, special effects	InT4 - interacts to extend	audio tracks. This hands	-i-8/midi-deba
	WAV, AIFF, MP3,	and exporting techniques. Ss are to capture	and elaborate ideas in a	on approach allows them	te-175502
	WMA , MIDI	videos on their phones and school cameras	discussion.	to experiment with different	
		using different sizes, different frame rates, and		sounds and arrangements,	https://develo
Vic	leo	zoom.	(ACARA, 2020)	catering to their need for	per.mozilla.or
•	video types:			auditory stimulation.	g/en-US/docs
	analogue, digital	Ss are to partake in a kahoot on common	ІСТ		/Web/Media/F
•	file size	codecs such as RealMedia, Quicktime,	Manage digital data	Kinaesthetic Learner	ormats/Video
	considerations:	Microsoft and H264	Level 6	Provides a hands on	_codecs
	frame rate,			interaction by manipulating	
	image size,	Ss are to play around with Leonardo.ai which is	Select and use hardware	instruments and dragging	
	colour depth	a Morphing Software.	and software Level 5	on screen control allowing	https://www.c
•	video			them to better engage with	odecguide.co
	compression:	T will provide an opportunity for Ss to produce	Understand ICT systems	the software.	<u>m/</u>
	lossy, lossless	and edit a video, utilising software such as	Level 5		
	<ul><li>image quality</li></ul>	iMovie and Adobe Premiere Pro. (at home		Verbal Learner	
	<ul><li>software</li></ul>	task).	(ACARA, n.d.)	These learners will benefit	https://www.y
•	video players			from being verbally guided	outube.com/w
•	file types: MPEG,			through the use of this	atch?v=iMll8d
	MP4			software via the T to help	R4IIE
•	video editing:			them gauge an	Cameras
	<ul><li>import/export</li></ul>			understanding of what is	
	<ul><li>titles</li></ul>			required.	Kahoot
	<ul><li>special</li></ul>				
	effects, eg:			Read/ Write Learners	
	twisting,			This software provides	
	zooming,			comprehensive tutorials	
	rotating, slow			and help resources that	
	motion, time			cater to verbal learners.	

lapse,	Thes	e tutorials often
distorting	inclu	de step by step written
<ul> <li>synchronising</li> </ul>	instru	uctions and
sound	expla	nations.
filters:		
- colour		
balance		
<ul><li>brightness</li></ul>		
<ul><li>contrast</li></ul>		
– blurring		
<ul><li>Morphing</li></ul>		
(Board of Studies		
NSW, 2008)		

# Pedagogies

**Experiential Learning** 

- Emphasises hands on, immersive experiences.
- Ss investigate sound concepts through website resources and record analogue sounds using GarageBand.
- Experimentation with different parameters (bit rates, sample rates, etc.) allows for practical exploration and analysis.
- Develops critical thinking skills as Ss analyse the impact of various factors on sound quality and file size.

Project Based Learning (PBL)

- Engages Ss in extended, real world projects.
- Ss create a multimedia publication incorporating graphics, text, and sounds, distributed using a USB package.
- Debate on MIDI and video editing and production using software like iMovie and Adobe Premiere Pro provide authentic, project based learning experiences.
- Develops collaboration, problem solving, and communication skills essential for multimedia production.

#### **Assessment**

#### Informal Assessment

- Observing engagement and understanding during sound investigation and GarageBand recording.
- Monitoring comprehension of sampling and digital conversion processes.
- Assessing participation in MIDI debate and experimentation with Leonardo.ai Morphing Software.

#### Formative Assessment

- Assessing creation and publication of multimedia publication with USB package.
- Evaluating understanding of video editing techniques and experimentation with different parameters.
- Evaluating outcomes of Leonardo.ai Morphing Software experimentation.
- Assessing video editing and production skills using iMovie and Adobe Premiere Pro.

### **Adjustments**

## Catered exploration of Sound Concepts

- Below Standard: Break down sound waves using interactive simulations for easier comprehension.
- Above Standard: Advanced readings on sound sampling and digital conversion processes.

## Varied Audio Recording and Editing Activities

- Below Standard: Guided tasks in GarageBand for basic sound recording and editing, focusing on clarity and studio techniques.
- Above Standard: Ss may experiment with different file formats and bitrates to explore nuances in sound quality.

# Differentiated Multimedia Publication Projects

- Below Standard: Scaffolds and guided instructions for creating simple multimedia publications, for Ss with limited technical skills.
- Above Standard: Opportunities for Ss to design their own multimedia publications, incorporating interactive elements or presentations.

# Modified Video Editing and Production Tasks

- Below Standard: Structured tutorials for iMovie or Adobe Premiere Pro for basic video editing, focusing on fundamental techniques.
- Above Standard: Ss may experiment with special effects and transitions to enhance the visual appeal of videos.

W e	Students learn	Students learn to	Integrated Teaching and Learning Activities & Learning Goals	Teaching & Learning (Numeracy, Literacy &	Catering for Diverse needs	Resources
е				ICT)		
k						

6 Animation	- evaluate the	Ss are to explore 2D animation.	Numeracy	XPlane Flight Simulator	http://www.sto
• 2D anim	ation characteristics and	Ss are to investigate the rich history of 2D	UGP3 - represents		pmotionpro.c
– cel ar	imation features of a range	Disney animation.	shapes and objects	Visual Learners	om/
(stop	motion, of animation		(animation characters)	These learners will benefit	
claym	ation) techniques	Ss will explore the features of Stop Motion		from the visual	www.blender.
– path		Studio.	Literacy	demonstration of how to	<u>org</u>
anima	tion - identify and		UnT11- Ss critically	use this software as well	
– morpł	ing and discuss animation	Ss will create a path animation, using Adobe	evaluate visual elements	as the T-directed lessons	http://www.x-p
tweer	ing requirements, scope	Animate which will help them gain an	in multimedia texts	demonstrating the use of	lane.com/abo
– frame	rates of 2/3D animation	understanding of morphing and keyframes		the different software.	<u>ut.html</u>
– transi	ions software	techniques. Ss will build on their knowledge by	UnT9 - summarises the		
– loopin	g	creating a basic camera path animation within	text identifying key	Kinaesthetic learner	Adobe
3D anim.	ation (Board of Studies	Animate.	details	This software allows users	Animate
– mode	ling NSW, 2008)			to connect physical flight	
– wire f	ame	Ss will continue with basic Camera path	InT5 - interacts to	controls. They can benefit	https://padlet.
– rende	ring	animations but will begin using Blender.	critically evaluate ideas	from the tactile feedback	com/
– morpi	ing		and refine meaning	provided by these physical	
– warpi	ng	Ss will assess the difference between the two		controls, enhancing their	https://www.x-
– motio	ı	programs and justify their preferred choice on	(ACARA, 2020)	learning experience.	plane.com/
captu	re	padlet.			
<ul> <li>virtual re</li> </ul>	ality	Total and the discrete discrete	ICT	Verbal Learners	
– simula	ators	T will conduct directed lessons on various	Understand computer	These types of learners will	
– walkti	roughs	advanced topics including simulators, Virtual	mediated	directly benefit from the T	
– navig	able	Reality (VR), game engines, and sophisticated	communications Level 6	guided elements of this	
scene	s	architectural software.		week's structure as they	
(Board of Stu	ıdies	Ss may use software like the X Plane flight	Generate solutions to	can listen to instructions	
NSW, 2008)			challenges and learning	and then ask questions to	
		website to explore offine simulators.	area tasks Level 6	reinforce their knowledge	
				and understanding.	
NSW, 2008)		website to explore online simulators.		reinforce their knowledge	

		(ACARA, n.d.)	
			Read/Write Learner
			Learners will be able to
			engage with the manuals
			within this software to
			enhance their
			understanding through
			reading instructions
			Auditory Learner
			This software offers
			realistic sounds, and
			instructional audio for
			auditory learners to listen
			to as a way of helping
			them develop their skills
			using this software.

Animate offers 2D animation whereas Blender offers 3D. Allowing Ss to explore both gives them

# **Pedagogies**

**Active Learning** 

- Engages Ss through hands on activities and inquiry based exploration.
- Researches 2D animation history and explores stop motion software.
- Uses Animate to create path based and camera path animations, applying animation principles practically.
- Encourages deeper understanding and skill development through active manipulation of elements.

# Social Development Theory

- Fosters a supportive environment for learning from peers and constructing knowledge together.

- Ss compare and evaluate path based animations created in Animate and Blender, justifying their preferred choice on Padlet.
- Promotes critical thinking and peer discussion as Ss assess different tools and techniques.
- T directed lesson introduces various multimedia applications, encouraging collaboration in exploring their capabilities and potential use.

#### **Assessment**

#### Formative Assessment

- Assessing comprehension of key animation concepts in Adobe Animate.
- Observing student applications of creating camera path animations in Adobe Animate and Blender.
- Evaluating quality of path based animations created in Adobe Animate and Blender.
- Assessing ability to compare and justify preferred software choices using Padlet.

#### Informal Assessment

Evaluating comprehension during XPlane flight simulator demonstration.

#### Peer Assessment

Peer assessment of differences between animations created in Adobe Animate and Blender, with justifications.

## Adjustments

## Modified Investigation of 2D Animation

- Below Standard: Simplified resources such as structured worksheets for learning 2D animation basics as well as pre selected articles on the history of Disney animation.
- Above Standard: Encourage advanced exploration by providing access to case studies on innovative uses of 2D animation in modern media.

## **Differentiated Animation Creation Tasks**

- Below Standard: Scaffolded tutorials on creating simple animations with Animate, focusing on basic techniques of keyframes and tweening.
- Above Standard: Challenge Ss to create complex path based animations with custom effects using advanced features of Animate.

# Varied Technology Demonstrations

- Below Standard: Guided walkthroughs on navigating Blender's interface and creating simple camera animations.
- Above Standard: Opportunities for Ss to explore advanced animation tools in Blender and create custom camera animations.

## Modified Discussion on Advanced Multimedia Tools

- Below Standard: Present examples of how VR and simulators are used in different industries.
- Above Standard: Encourage Ss to research and present case studies of innovative uses of VR or game engines in fields like architecture or aviation.