Penbridge School Computing <u>Curriculum</u>



Unit: Evaluating content

NC Link:

(KS2) Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information

Success Criteria Progression:

	Year 3	Children can explain what they like and don't like about a picture. Children will be able to give their peers feedback on what they like and don't like about their product. Children will be able to justify their opinions
_	Year 4	Children will be able to reflect on the positives and negatives of their design. Children will be able to suggest ways to improve designs. Children will be able to make changes based upon feedback given.
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_	Year 5	(SEARCH) Children will be able to evaluate the accuracy of a website or source. Children will be able to explain why websites may not be accurate or reliable.
		<u> </u>
	Year 6	Children will be able to evaluate and improve their own creation/system. Children will be able to evaluate their system based upon target creation/system.

Year 3 – Photo Creation

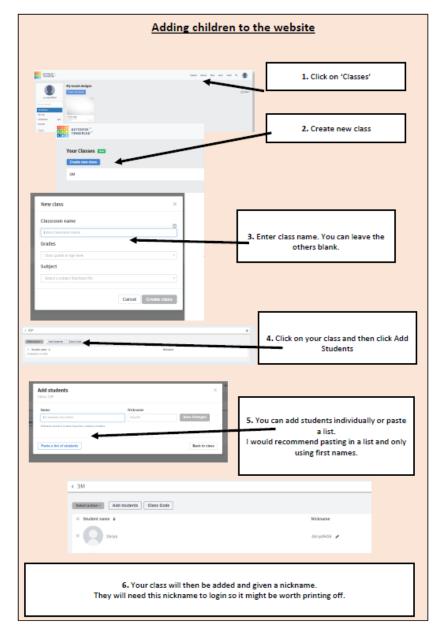
Lesson 1	Lesson 2	Lesson 3	Lesson 4
LO: To experiment with taking and	LO: To use doodle tool to enhance a photo	LO: To peer-assess our digital art.	LO: To self-assess our digital art.
enhancing photos.	of an everyday object.		
Starter: Can you remember how to take a	Starter: Children should have been thinking	Starter: Get up your favourite picture	Starter: R
photo on an iPad? Can you list the steps for	about objects they have seen which could		
someone who has never used an iPad	be photographed and enhanced to create	Input: Why is it important that we reflect	Input:
before?	tremor themed digital art. Share any ideas	on our work? Not just in computing but	
	they have and look at examples of doodled	across the whole curriculum.	Activity:
<u>Input:</u> Why is photography so important?	on photographs.	Why do we use thinking hats to do	
How many different ways can you think of		reflections? Why is it more effective to use	Less Able:
to change how an object looks in a	Input: What can you remember from last	more than one thinking hat when we	
photograph? Build list to try out later in	lesson? What do I need to think about	reflect?	More Able:
the lesson.	when taking a photograph on an iPad.	How do we give good feedback to our	
Introduce keywords: Perspective, focus,	What else do I need to think about when	partner? What should be on our success	<u>Plenary:</u> Green hat reflection – what could
exposure. Look at examples of how these	enhancing/editing a photograph on an	criteria that we can assess against?	you do differently if you were to create
factors can change a photograph and how	iPad?		some digital art again?
they can be changed on the camera app on	Introduce the markup/doodle feature on	Activity: Children to partner up and	
an iPad. Children to experiment at taking	the photos app and how to change	complete feedback based on the success	
photographs and changing perspective,	colour/tool/thickness to achieve different	criteria for the artwork.	
focus and exposure to alter their photos.	effects.		
		Children to then read their feedback and	
Activity: Introduce the idea of a photo	Activity: Children to find and take a photo	come up with a green hat. What will you	
walk. As a class roughly walk the route of	of an everyday item each - they can move	change based on the feedback?	
daily mile.	the object thinking about perspective,		
When back in classroom, introduce the fact	focus, exposure. Remind them they are	Children then have time to adapt their	
that most photographs in media are	going to turn it into a Tremors related	artwork. (Get children to duplicate pictures	
adjusted and edited. Introduce the	piece of art.	before editing them so we can see the	
keyword enhance/enhancing and how we	Children to use what they learnt last week	progress)	
can enhance photos on an iPad	to ensure they have a high-quality picture. Children may want to then sketch out what they want		
(enhance/straighten/rotate/crop). Children	their final piece to look like on a whiteboard or scrap	Less Able: Differentiated feedback sheet	
to then practise editing their photos from	paper.		
the classroom and photo walk.		More Able: Justify feedback given linking to	
Loca Ablas	Give the children time to then create their	the desired outcome	
Less Able:	piece of digital art and make sure they are	Diagram Base seeses Herricall de con-	
Marie Alder CDs to also this back have	uploaded to seesaw/saved elsewhere so	Plenary: Peer-assess: How well do you	
More Able: GDs to also think about how	they can be printed off for next lesson.	think your partner has responded to your feedback? Why?	
lighting can affect a photograph.		reedback? Why?	
Planary Can you write some ten time/stone	Less Able:		
<u>Plenary:</u> Can you write some top tips/steps for someone to take the perfect photo on	More Able:		
an iPad – imagine it is for an elderly	<u>Plenary:</u> Is there another doodle idea you		
relative or someone who doesn't use	could have drawn to change your original		
	photo into something else?		
technology.			

Year 4 – 3D Design

See bottom of document for logging in information

Lesson 1	Lesson 2	Lesson 3	Lesson 4
LO: To explain what 3D design is and	LO: To use TinkerCAD to create	LO: To use TinkerCADto create different	Double lesson
use 3D Design tools.	buildings.	shapes.	LO: To use 3D Design technology
Starter: What does 3D mean?	Starter: What is 3D design?	Starter: Think back to last lesson –write	independently.
Prediction key – What is 3D design?	Who might use 3D design to help them?	some top tips for using TinkerCAD.	
			Starter: Read peer-assessment from last
Input: Discuss with children what 3D	Input: Show children how to log on and	Input: Re-cap logging in and let children	lesson and use it to set yourself a target
Design is. Can children come up with	off of TinkerCAD. Once children have	build another house to ensure they	for the project today.
real world examples of when 3D Design	logged back off get them to try logging	remember how to do it.	
could be used? What jobs might use 3D	on independently and address any	Demonstrate to children how to create	Input: Re-cap skills with children.
Design? Discuss with children which	misconceptions.	roads, gardens and paths by adjusting	Introduce children to chosen project –
skills they would need to be successful.	Model TinkerCADto children. Show	the height of 3D shapes	give children to discuss how they might
Look at different 3D designs and discuss	them a variety of things that can be		achieve this. What design are they
what they like about them and	created.	Activity: Children to add roads, gardens	going to do?
		and paths to their project from last	
Activity: Show children images of	Activity: Children to use 3D shapes to	week.	Activity: Children to work
multilink models and get them to try	build a row of houses-They will use		independently to complete the project.
and recreate them. Children then move	cubes and square-based pyramids to	Less Able:	Throughout the lessons children need
on to play this game;	build a row of houses by changing the		to complete peer assessment sheet for
https://www.digipuzzle.net/minigames/build/build_pa tterns.htm?language=english&linkback=//education	size, colour, height and using duplicate	More Able: Can you use your skills to	their projects. A partner should suggest
/index.htm	tools.	add windows and doors?	some feedback which children should
Once they think they have copied the	Children need to choose two of the		then act on. When they have acted
design, click on the tick and if correct	buildings they created and complete a	<u>Plenary:</u> Peer assessment of creations.	upon the feedback children need to
and move onto the next level.	thinking hat reflection on them.		record how they did it on the sheet.
Less Able:	Less Able:		Less Able:
More Able:			
	More Able: Can you use the shapes to		More Able:
Plenary: Blue hat –what did you find	create other types of buildings? Can you		
difficult today and why?	add windows and doors?		<u>Plenary:</u> Self assessment of creations
	<u>Plenary:</u> Peer assessment of creations.		

3D Design





Year 5

These objectives are covered during the Search unit.

See separate planning for this half term (Video creation unit)

Year 6 – Video creation

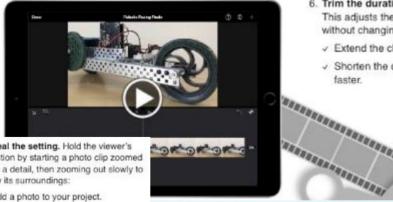
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
LO: To change the speed of a	LO: To make a picture move in a	LO: To plan and organise a	LO: To record a report.	LO: To complete and reflect on a
<u>video.</u>	movie.	mobile report.		video project.
Starter: What do you know	Starter: What skills can you	Starter: What have you learnt	Starter: Read through your plan	
about filming and editing videos	remember about filming in slow	about filming and editing videos	– does it all make sense? Are	Starter: What have you learnt
so far? What skills can you	motion and time lapse?	so far? What skills can you	there any changes you need to	about filming and editing videos
remember from other years?		remember?	make?	so far? What skills can you
	Input: Show different picture			remember?
Input 1: Watch a video which	montages created on iMovie.	Input: What is a report? Why will	Input: What can you remember	
uses different speeds and	What do they notice about the	people record them?	from previous years about	Input: Re-cap skills learnt for
settings. What effects did they	pictures? Show children how to	Introduce project and	camera angles? - How can we	editing
see? What changed about the	add pictures to an iMovie	expectations. Put children into	ensure we get the best video	
speeds? Introduce the time lapse	project. Once added	groups. Briefly recap effects	quality? Talk about camera	Activity: Children to spend time
mode and then adding it to	demonstrate to children how to	children will be using in their	angles, steady camera, zooming	editing together their reports.
iMovie and creating a freeze	make the picture move.	reports – show children	in and out and focus	
frame.		examples.		Less Able/More Able: Mixed
Activity 1: Children to practice	Activity: Children to practice	Activity: Children work in groups	Activity: Children to work in their	ability groups
using the time lapse setting.	adding pictures and changing the	to plan their report. Which parts	groups to record the event	
Then practice adding to iMovie	start and end position. See below	will be in slow motion? Which		Plenary: Share reports with the
and creating a freeze frame.	for more information.	will you time lapse? When will it	Less Able/More Able: Mixed	class and then complete thinking
Freeze A d Reset		be effective to add freeze	ability groups	hat reflection.
90 13 1	Less Able:	frames/moving pictures? Discuss		
Input 2: Show children how to		with children that they will be	Plenary: Check through all of	
use slow motion setting. Also	More Able:	able to add voice over to parts.	your clips and upload them to	
demonstrate to children how to		Children to add to plan when	Teams as a backup.	
change the speed of a normal	Plenary: What impact would this	they will add voice over and		
video in iMovie.	setting have on the viewer?	create ideas for what they will		
Activity 2: Children to practice		say.		
this new skill.		Less Able/More Able: Mixed		
THACLARIE SCO NO URBO PROTO I		ability groups		
A Part Add Rest		Plenary: Share plans. Have you		
Less Able:		included everything? Would you		
Mara Abla		like to magpie anything from a		
More Able:		partner? Blue hat – what do you		
Plenary: Which effect do you		think you will find difficult when		
think would be the best to use in		creating your report?		
a report? Why?				



4. Adjust the Ken Burns effect:

- Tap the photo clip in the timeline.
- Pinch in to zoom out on the image in the viewer, then drag the photo to reframe. This is the start position for the photo.
- ✓ Tap the End button

 I, then pinch out to zoom in on an important detail in the photo. Drag to reframe.
- 5. Play the clip.



- 6. Trim the duration of the photo clip. This adjusts the speed of the movement without changing your framing:
 - Extend the clip to increase the duration.
 - Shorten the clip to make the movement faster.



- 7. Reveal the setting. Hold the viewer's attention by starting a photo clip zoomed in on a detail, then zooming out slowly to show its surroundings:
 - Add a photo to your project.
- on the subject.
- ✓ Tap the End button ▶

 I, then zoom out to fit the entire photo in the frame.
- Extend the clip to slow the movement.
- 8. Hold a picture static. Tap the Ken Burns Enabled button by to turn off panning and zooming.

