

Computing Planning Overview

Year 4 Multimedia Fact File

The Computing Curriculum in KS1 and KS2 can be split into 3 areas:

- Computer Science
- Information Technology
- Digital Literacy

<p>Resources:</p> <p>J2e5 (other alternative presentation software would be Microsoft SWAY or PowerPoint or Google Sites)</p> <p>Websites for research https://www.dkfindout.com/uk/search/rainforest/</p> <p>https://www.wwf.org.uk/learn/fascinating-facts/jaguars</p> <p>https://www.natgeokids.com/uk/discover/geography/physical-geography/15-cool-things-about-rainforests/</p> <p>Completed example Project</p>		<p>Information Technology: Presenting information. Task - Create a Multimedia Fact File</p> <p>Unit Overview: Create a researched based fact file based upon a topic being studied (Rainforest). Plan and create fact files pages that are hyperlinked from the home page include a range of multimedia – images, sounds, images and video</p> <p>Computing</p> <ul style="list-style-type: none"> ✓ 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 ✓ use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content 		
	<p>Information Technology</p>	<p>Tasks</p>	<p>Pupil Outcomes</p>	
<p>1 and 2</p>	<p>use technology purposefully</p>	<p>Skill: To know how to present information on a page using text and images. Plan a non-linear presentation, making appropriate choices for layout and content to present the information clearly. Be aware of copyright issues surrounding the use of images online.</p>	<p>I know what multimedia is and I</p>	

<p>to create, organise, store, manipulate and retrieve digital content</p> <p>Use technology safely and respectfully</p>	<p>Teacher to introduce topic and tasks – each lesson students will be researching and adding content to their presentation. This unit has been designed around the topic of rainforests; however, you could easily change the topic to one that you are studying in school. Here is a completed example project - https://www.j2e.com/fortprimary/Link2ICT+Scheme/Y4+Multimedia+Fact+File/rainforest+Year+4</p> <p>What is multimedia?</p> <p>Multimedia is a type of communication that combines different types of content such as text, audio, images, animations, links or video into a single presentation.</p> <p>Types of multimedia presentations</p> <ol style="list-style-type: none"> 1. Linear – Most presentations start at the beginning then each slide is presented one after another in numerical order. This is called a 'Linear presentation'. Slide 1 is followed by Slide 2 then Slide 3 and so on. These kinds of presentation have a minimal amount of audience participation. 2. Non-linear – presentations allow you to navigate through material without having to follow a strict order. They give viewers the ability to jump over slides, depending on what information is most relevant in a certain situation. <p>This unit will create a multimedia fact file that is non-linear which will allow the viewer to choose the information they wish to view in any order they want.</p> <p>Effects make the world of difference - Text styles, Images, shapes, sounds, background images and 'call outs' make information stand out and helps to present information more creatively and in a more engaging way.</p> <p>What is a digital image? - A digital image is a picture that is stored on a computer. It has been digitised, which means it has been changed into a sequence of numbers that</p>	<p>know that it makes presentations more engaging</p> <p>I know the difference between linear and non-linear presentations</p> <p>I can use effective editing tools to present my text clearly</p> <p>I can rearrange layers on my page to improve the design</p> <p>I know that digital images come in different file type - .PNG JPEG</p> <p>I can compare two presentation pages and say why one is better than the other</p> <p>When searching on the internet for</p>
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computers can understand. Images - Images can be saved in a number of formats, such as JPEG, TIFF, PNG and GIF. These formats all use pixels in some way to store the picture.

Show the [class this file](#), it has 2 pages with THE SAME facts about jaguars, which one is more effective? What features make it more effective? Colour, text styles, font size, layout, images, hyperlink

<https://www.i2e.com/fortprimary/Link2ICT+Scheme/Y4+Multimedia+Fact+File/Jaguar+Fact+File>

Jaguar facts

The jaguar is the third biggest of the big cats.
 They kill their prey by biting through their skulls.
 They are mostly found by rivers or the shrub layer/forest floor
 The jaguars scientific name is Panthera Onaca.
 Jaguars are mammals.
 Jaguars can live for 12-15 years.
 They are near threatened.
 An adult jaguar can weigh up to 133 kg

<https://www.wwf.org.uk/learn/fascinating-facts/jaguars>

content to use, I can explain why I need to consider who owns it and whether I have the right to reuse it.

I can group objects on a page

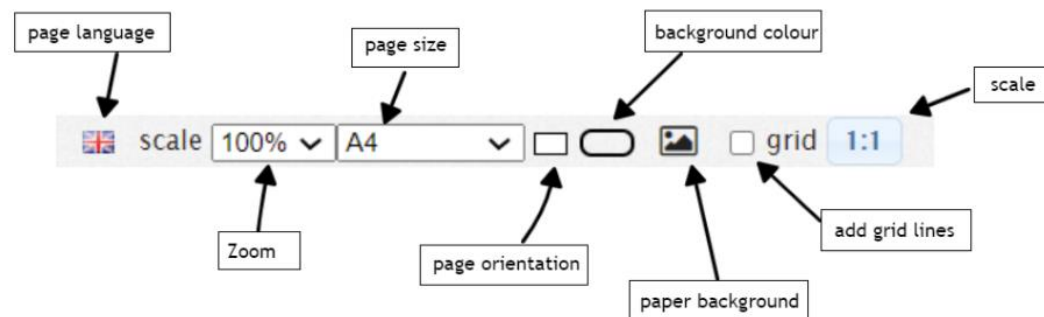


Teacher information on how to use some of the J2e5 features needed for this unit please demonstrate – Some of these tools they will be familiar with as they will have covered in the year 3 presenting information units, however, these are essential in being successful with this unit.

- Remind children of how to add text and this can be placed anywhere on the page
- Remind them how to add images, search for images and access shared images. To support this, before the lesson collate some images in your My Files, make a folder and drag the images into this, next share the folder, you can continue to add images to this shared folder as you progress through.
- Remind children about switching between view and edit mode; so they can see how their presentation looks.

Next demonstrate the following skills:

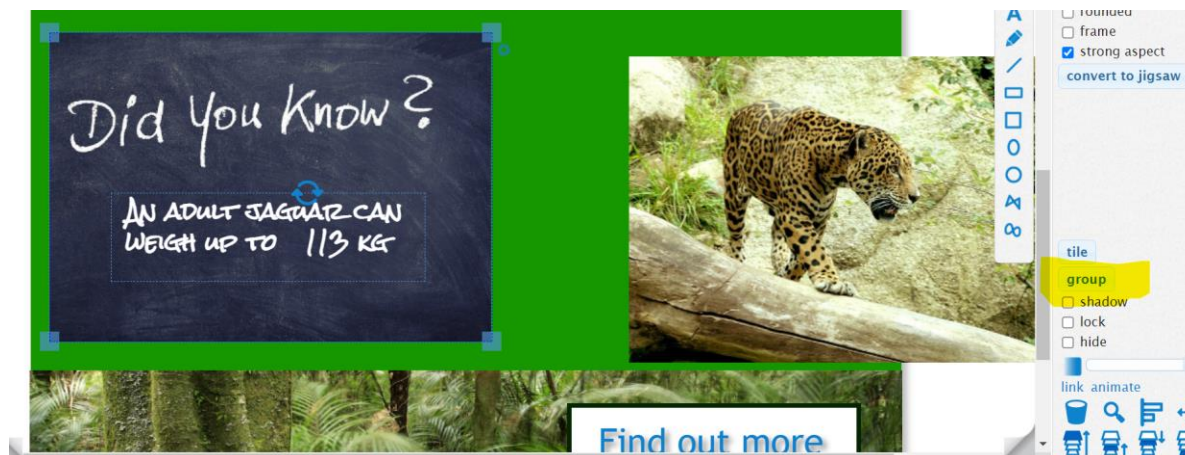
- How to change the page layout and size – at the bottom of the screen in J2e5 you will see the page editing options



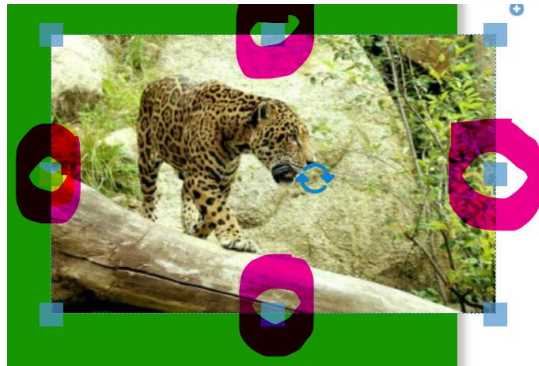
As we will be making presentation that are being viewed online ask the children to select J2Webby, if you wish to print these out I would suggest keeping them A4 but make sure they are all landscape.



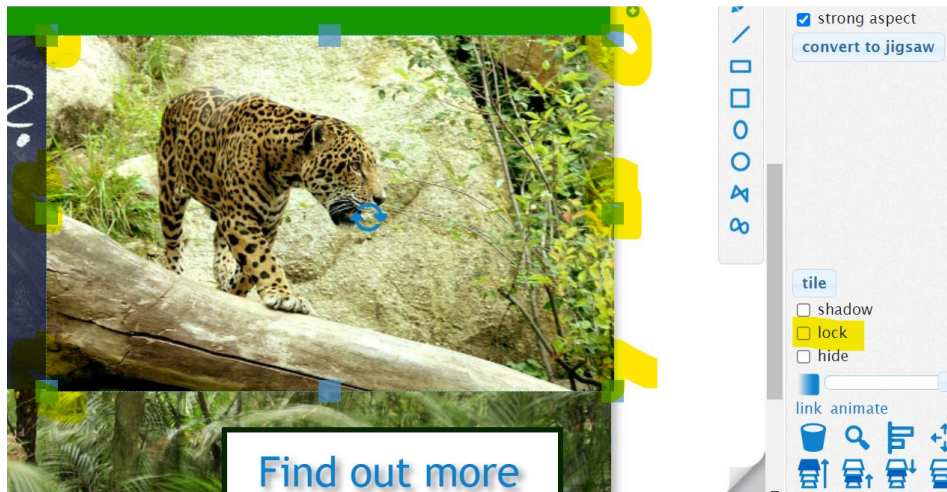
- How to group items such as images and text boxes simply select what you want to group and then on the right-hand side you will see group option. This will allow grouped images to be moved/resized together.



- How to crop images in J2e5 once an image is selected use the centre points to crop

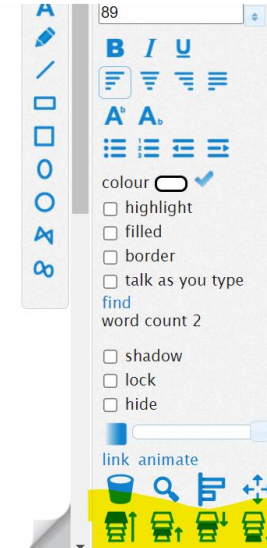
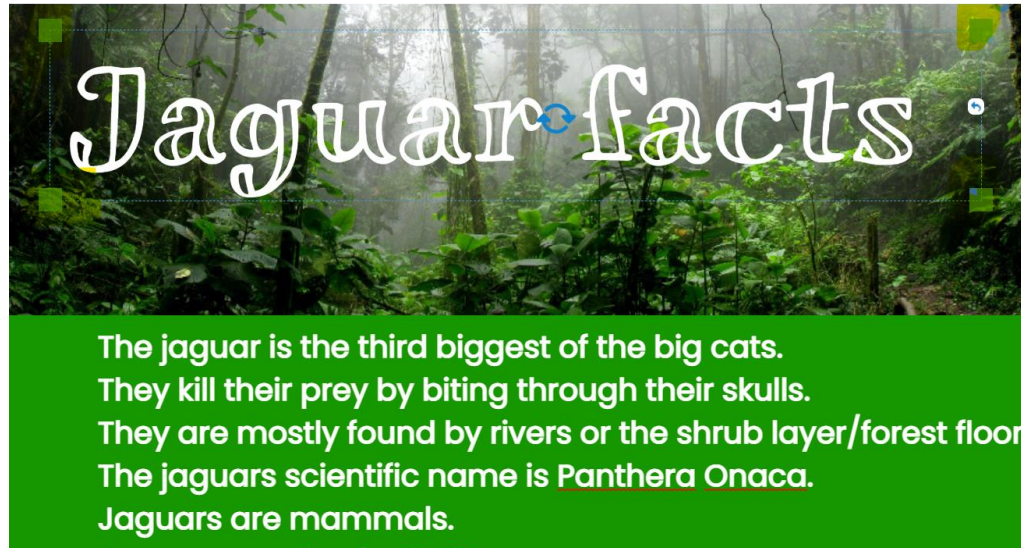


- How to lock to the page – this is very important in order to add text boxes over the top once an image or text box is selected you will be able to lock on the righthand side. To unlock click on the image/box again and you will see the option to unlock



- Show how to reorder the images on different layers on the page, select the image and then the toolbar on the righthand side will appear, decide the order the image

will be placed ▾



See the J2e help files and videos access via your Help Tile

These 2 files are particularly useful for this unit of work

<https://support.j2e.com/support/solutions/articles/77000465792-j2e5-what-do-all-the-buttons-do->

<https://support.j2e.com/support/solutions/articles/77000465912-j2e5-advanced-functions>

technology purposefully to create, organise, store, manipulate and retrieve digital content

Use technology safely and respectfully

Images and ownership

Ask the children if they find things (such as images, videos, music) using a search engine, who owns that content?

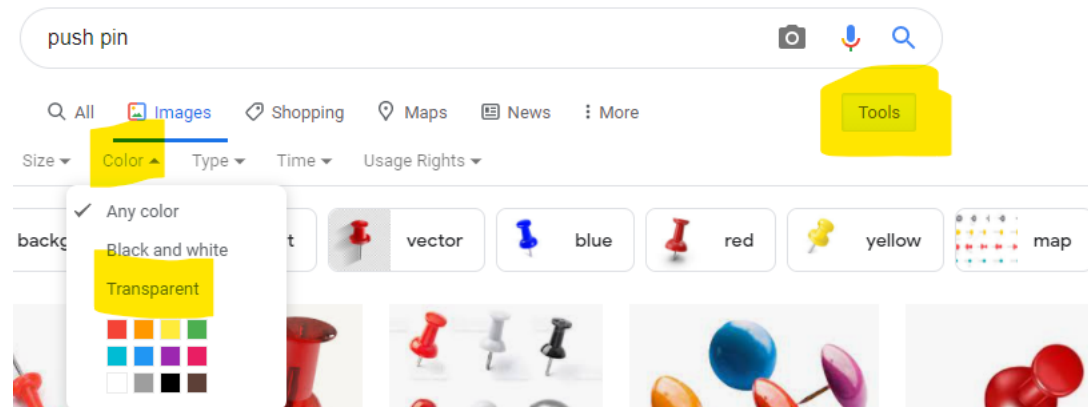
If we want to add an image found on a search engine to our work, how can we tell if we are allowed to reuse it? Just because we find it online doesn't mean we have permission to reuse it. We can use photo sharing websites or search for images that are listed as creative commons license.

<https://creativecommons.org/about/ccllicenses/>

Searching for transparent images and copyright

Transparent images always look better in presentations, this is how to search for them in Google Images: In a google search the file name .png as this will frequently show images that are transparent (have not background).

Tools>Colour>Transparent



Save images to My Files for use later (it would be helpful if the teacher saves a collection of these common images and shares them with the class from My Files)

Copyright images can also be searched for in Google images or on Image sharing websites

Google Image Search>Tools>Usage Rights>Creative Commons – when adding an image encourage children to put the image source(attribution) below the picture

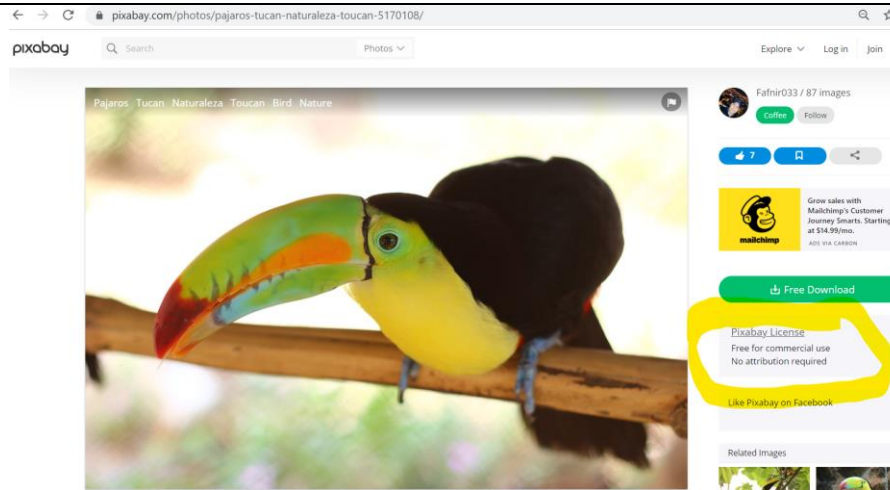


https://en.wikipedia.org/wiki/Jaguar#/media/File:Standing_jaguar.jpg

Websites for free images to use in class

<https://pixabay.com/>

You can see from this screenshot that this image of a toucan is free for use without attribution, this means that you do not have to identify the owner of the images as it has been shared for public use. This is something that children need to be aware of and either attribute their images or include copyright free ones.



Other free images sites include:

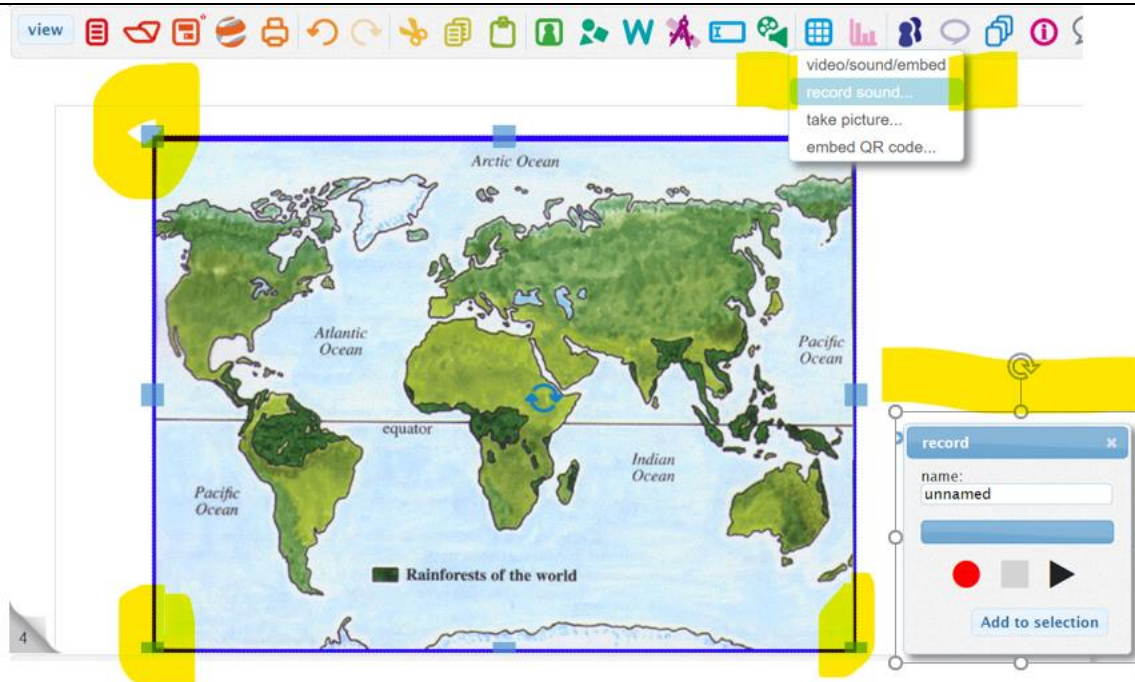
<https://www.flickr.com/commons>

<https://www.pics4learning.com/>

Pupil Tasks – This will take 2 lessons

- ✓ Plan your non-linear presentation, what information do you want on the each page? Think about how to present the information in the best way e.g, lists, bullet points, Did You Know boxes, images, backgrounds, choice of colour. Planning template below if you wish to use this.
- ✓ Children will have a go at searching for copyright free images, saving these to their My Files area so they can use them in their presentations
- ✓ Plan page 1 - Begin to build your presentation by creating a first page, remember to leave space at the top of your page that will link to the others pages (this needs to be completed last as all the pages need to be created first), include a background

		<p>and title, also include your name (if these are to be shared, don't give too much information away – e.g. just your first name is fine)</p> <p>✓ Page 2 – facts about the rainforest, where in the world are they found? Why are they important, what are they used for? Are they endangered?</p> <p><i>Rainforest layers – useful links listed in resources – we suggest you make a file/folder of these on the Launch Page to help with research.</i></p> <p>https://www.dkfindout.com/uk/animals-and-nature/habitats-and-ecosystems/rainforest-layers/</p>	
3, 4 and 5	Use technology purposefully to create, organise, store, manipulate and retrieve digital content.	<p>Skill: To know and use different ways of presenting information to make the content more engaging and accessible through the use of sound files and embedded videos.</p> <p>Over the next 2/3 lessons children will continue to build their content, they will research (this would be a great homework task, so they come to the computing lesson with facts about rainforest life)</p> <p>Completed example Project See Where are Rainforests page</p> <p>Adding Media to your Multimedia presentation</p> <p>Adding sound recordings to pictures - It is possible to make pictures a sound trigger. Add your picture to your J2e5 page, select the picture click multimedia button and click 'record sound' this could be a recording of some narration.</p>	<p>I know that multimedia makes information more engaging</p> <p>I can record my narration as a sound file and add it to an image or text box in J2e5 and add text to the image</p> <p>I can embed a YouTube video in my presentation</p>



Embedding YouTube videos

Explain that it is possible to embed videos into your presentation in J2e5.

Such as this National Geographic Rainforests 101 - <https://youtu.be/3vijLre760w>

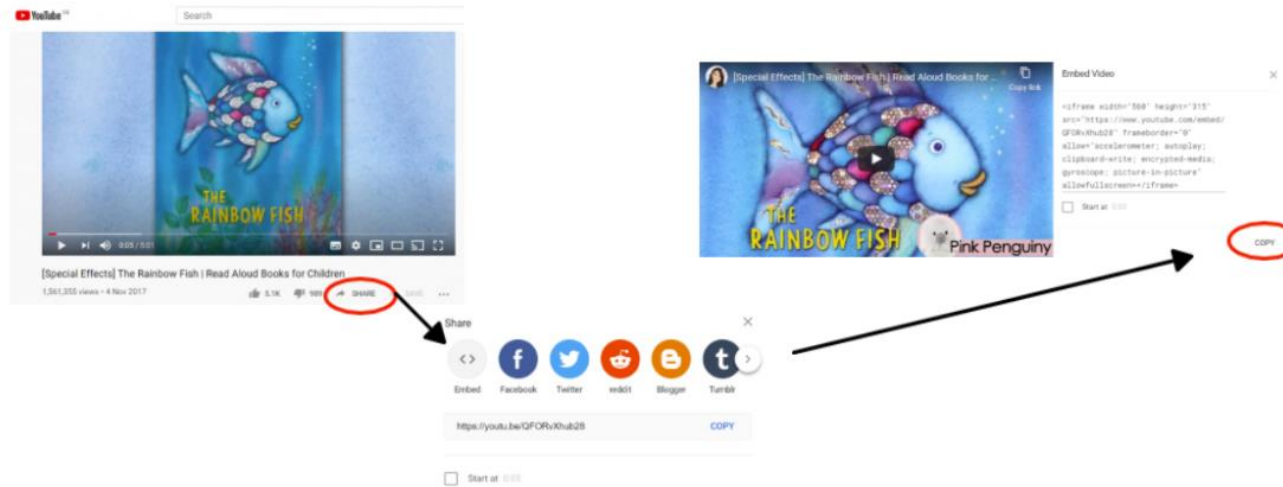
The following screen shots (from J2e Advanced help files) will show you how to embed

video, or you can watch this video - [How to embed YouTube video in J2e5](#)

Please note if your school disables YouTube.com for students, you can give them embed codes and the videos can still be embedded into J2e5 – see the video

Embedding from a video streaming site

Some video streaming sites will provide an embed code for their video content. E.g. YouTube videos can be embedded by navigating to the required video, click the "share" button, click embed and copy the embed code (check your chosen video streaming site for specific instructions on how to find an embed code):



Embedding a video into J2e5

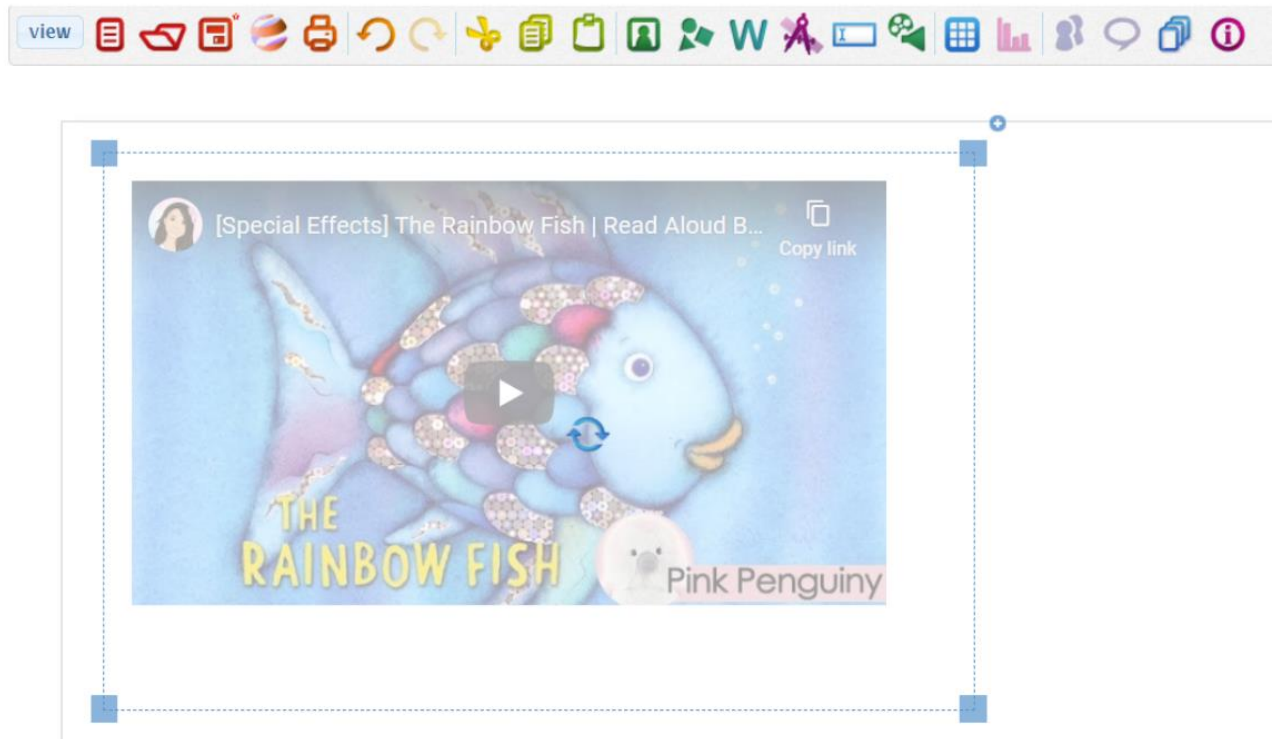
Once you have copied the required embed code, load your J2e5 file. Click on the multi-media button (top of the page) and select "video/sound/embed":



Paste the embed code into the embed box, and click "ok":



The video will show in a moveable format - move your cursor to where you wish to place the video and click to drop onto the page. Resize the video using the blue boxes:



Note: Videos will not play in the edit screen of J2e5. To view, click on the "view" button (top left of page)

Pupil tasks

- ✓ Create a page on each animal/piece of information about the rainforest e.g. a page on Howler Monkeys or a page on the rainforest layers. Each lesson the aim is to complete at least 1 page which includes a background, text boxes with facts, images, and if possible a You Tube video clip and or sound recording (this could be a narration of the text)

6

Use technology purposefully to create, organise, store, manipulate and retrieve digital content.


Skill: Create multiple pages for their presentation and use hyperlinks to link them together as detailed in their planning to create a non-linear presentation.

Naming and linking pages


The final step is to now add links to each page. Once the content has been created children will need to add links to make it a non linear presentation, giving the viewer choice over which information they wish to view. To do this you

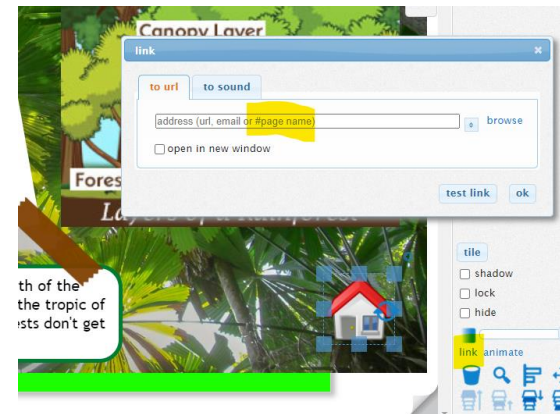
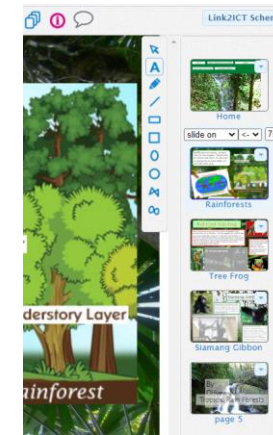
Pupil Task

- ✓ Name pages

To name pages click on the multiple page icon  Click on the page name below the thumbnail of the page and type the name you want to give the page e.g. Tree Frog

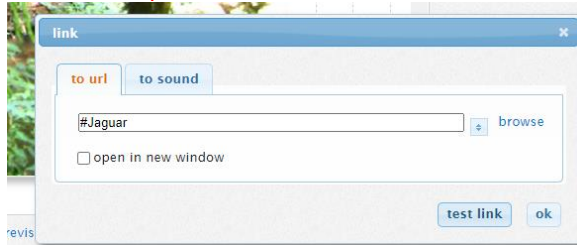
- ✓ Add a 'home' icon to each page – this is usually in the top left or

bottom right of a page.  select this icon and blue square will appear in the corners and the options menu will now appear on the right-hand side of the screen. Click on link and type the page name you have given to your first page e.g. #Home (this must be EXACTLY as the page name given i.e. spaces and capital letters)



I can add links to websites, and links to other pages within my presentation

- ✓ Add links to the menu on the first page, select the text box (not the text itself) and the link as we did for the Home page by adding a link to e.g. #Jaguars. N.B use the test link option to check if it works then click OK)

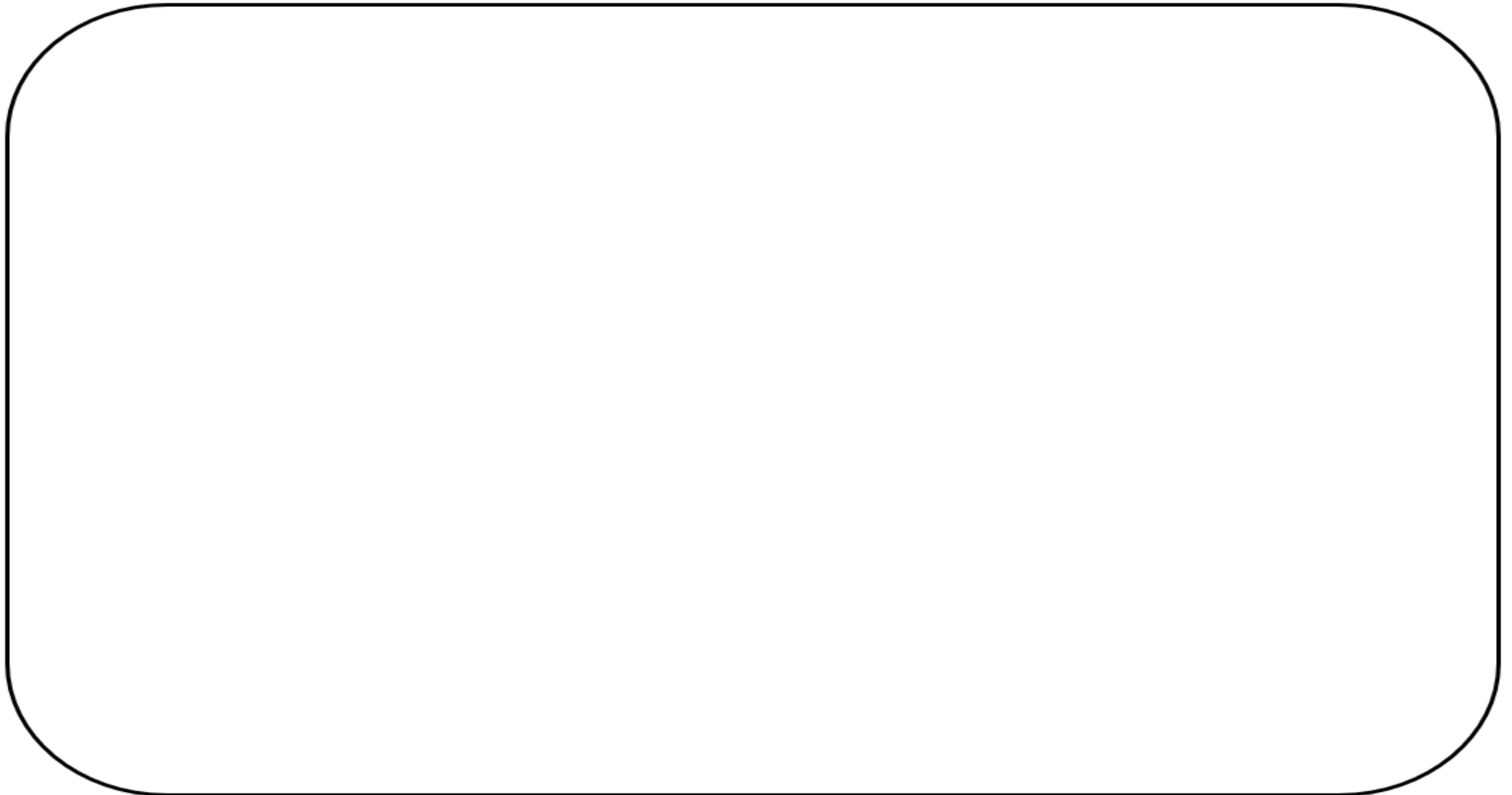


Allow time for children to review other presentations and give feedback to their peers, these projects could be embedded on your school website or why not create a gallery of work that is accessed by QR code.

Planning template

Name:

Draw your introductory page below, remember to include a header with links to your pages.



All about the rainforest

Where are they found?

Describe them, what are they like,
how are they different

Multimedia I want to include (video, Images,
sounds, voice recordings)

Why are they important? How are they
endangered?

Other interesting facts/ Did you Know fact to
include

Animal name

Facts

Multimedia I want to include (video, Images, sounds, voice recordings)

Habitat/How it has adapted to it's environment/ Diet

Other interesting facts/ Did you Know fact to include

Research facts for lesson 1

Research an animal that lives in the rainforest. Use these sites

<https://www.wwf.org.uk/learn/fascinating-facts>

Jaguar facts that could be used:

Jaguar facts

The jaguar is the third biggest of the big cats.

They kill their prey by biting through their skulls.

They are mostly found by rivers or the shrub layer/forest floor

The jaguars scientific name is Panthera Onaca.

Jaguars are mammals.

Jaguars can live for 12-15 years.

They are near threatened.

An adult jaguar can weigh up to 133 kg

Understanding Creative Commons Licences –
<https://creativecommons.org/about/cclicenses/>

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BY – Credit must be given to the creator

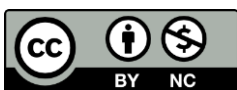


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- BY  – Credit must be given to the creator
- NC  – Only noncommercial uses of the work are permitted
- ND  – No derivatives or adaptations of the work are permitted

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