

Year 2 – Digital photography

Unit introduction

Through the lessons in this unit, learners will learn to recognise that different devices can be used to capture photographs and will gain experience capturing, editing, and improving photos. Finally, they will use this knowledge to recognise that images they see may not be real.

Overview of lessons

Lesson	Brief overview	Learning objectives
1. Devices	This lesson introduces the concept that many devices can be used to take photographs and that we choose the device for many different reasons. Learners will then begin to capture their own photographs.	To know what devices can be used to take photographs • I can sort devices into old and new • I can talk about how to take a photograph • I can capture digital photos and talk about my experience
2. Landscape or portrait?	A photograph can be taken in either portrait or landscape format. In this lesson, learners explore taking photographs in both portrait and landscape formats and explore the reasons why a photographer may favour one over the other.	To use a digital device to take a photograph • I can explain the process of taking a good photograph

		• I can take photos in both landscape and portrait format • I can explain why a photo looks better in portrait or landscape format
3. What makes a good photograph?	A photograph is composed by a photographer. In this lesson, learners discover what constitutes good photography composition and put this into practice by composing and capturing photos of their own.	To describe what makes a good photograph • I can identify what is wrong with a photograph • I can discuss how to take a good photograph • I can improve a photograph by retaking it
4. Lighting and focus	Lighting and focus are important aspects of good photography composition. In this lesson, learners investigate the effect that good lighting has on the quality of the photos they take and explore what effect using the camera flash and adding an artificial light source have on their photos. They also learn how the camera autofocus tool can be used to make an object in an image stand out.	To decide how photographs can be improved • I can explore the effect that light has on a photo • I can experiment with different light sources • I can focus on an object
5. Effects	This lesson introduces the concept of simple image editing. Learners are introduced to the Pixlr image editing software and use the 'Adjust' tool to change the colour effect of an image.	To use tools to change an image • I can recognise that images can be changed

		• I can use a tool to achieve a desired effect • I can explain my choices
6. Is it real?	Images can be changed for a purpose. Learners are introduced to a range of images that have been changed in different ways and through this, develop an awareness that not all images they see are 'real'. To start the lesson, learners are first challenged to take their best photograph by applying the photography composition skills that they have developed throughout the unit.	To recognise that images can be changed • I can apply a range of photography skills to capture a photo • I can recognise which images have been changed • I can identify which images are real and which have been changed

Progression

Please see the learning graph for this unit for more information about progression.

Curriculum links

[Computing national curriculum links](#)

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

[Art and design](#)

- To develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form, and space

[Education for a Connected World links](#)

- To identify that some images are not real (fake)

Assessment

Formative assessment

Assessment opportunities are detailed in each lesson plan. The learning objective and success criteria are introduced in the slides at the beginning of each lesson and then reviewed at the end. Learners are invited to assess how well they feel they have met the learning objective using thumbs up, thumbs sideways, or thumbs down.

Subject knowledge

- Knowledge of photography devices, including historical devices
- You should be familiar with the basic principles of photography, including composition, framing, focus, and lighting
- Lessons 5 and 6 use an online photo editing tool, Pixlr, and knowledge of using photo editing software to apply filters to images is required to use this effectively; you should also be familiar with saving and downloading images

Enhance your subject knowledge to teach this unit with the following training opportunities:

Online training courses

- [Raspberry Pi Foundation online training courses](#)

Face-to-face courses

- [National Centre for Computing Education face-to-face training courses](#)

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