

SESSION 4: LET'S GO DIGITAL!

Age range: 11 - 14 years

Outline <p>In this session, learners will create their first digital infographic conveying the same data about inequality, in 2016 “the richest 1% now have more wealth than the rest of the world combined”.¹ Depending on previous experience and the school’s access to Photoshop, learners will use pre-designed templates, models or start from scratch. They will be responsible for documenting their technical progress and they will have the opportunity to evaluate both their process and their outcome.</p>		
Learning objectives <p>Learners will:</p> <ul style="list-style-type: none"> • Familiarise themselves with the Photoshop interface • Experiment with transparent coloured layers and pictograms in Photoshop • Develop a repertoire of skills and shortcuts in creating digital infographics 	Learning outcomes <p>Learners will learn:</p> <ul style="list-style-type: none"> • To identify the most useful tools, panels and windows in Photoshop using Activity Sheet 4.1. • To recreate a digital infographic that conveys the same inequality data as last session. • To log the Photoshop tricks and shortcuts they learn. 	
Key questions <ul style="list-style-type: none"> • What do we already know about how Photoshop works? • Which Photoshop tools will be most useful in (re)creating our 1% poster design? • What shortcuts and/or tricks have you learnt from experimenting? 	Resources <ul style="list-style-type: none"> • Computers with internet access and <i>one</i> of the following: <ul style="list-style-type: none"> ○ Access to www.easel.ly ○ Photoshop (model instructions are based on the CS6 version but could be adjusted for another) ○ Another design programme that the learners are accustomed to using • Session 4 Teacher’s Guide, including: <ul style="list-style-type: none"> ○ Copies of Activity Sheets 4.1 to 4.3 	
Curriculum links		
England Art & Design curriculum links Pupils will: <ul style="list-style-type: none"> • Increase their proficiency in the handling of different materials. 	Wales Art & Design curriculum links Pupils should be given opportunities to: <ul style="list-style-type: none"> • Design and make images and artefacts using a variety of materials, processes and ideas. 	Scotland Art & Design curriculum links <ul style="list-style-type: none"> • I have experimented with a range of media and technologies to create images and objects, using my understanding of their properties. (EXA 3-02a)

¹ Oxfam GB (2016) ‘[An economy for the 1%](#)’, Oxfam Issue Briefing January 2016, Oxford: Oxfam GB, p. 1.

Before session

- Decide which category your class falls into:

If Photoshop is *not* available:

There are several websites offering free subscription, such as www.easel.ly, that can lead new designers through the process of making their own infographics.

Watch some of the tutorials and practise using some of the templates before demonstrating to learners.

If learners are *new to* Photoshop:

Practise following the instructions below before leading your learners through Activity Sheets 4.1 to 4.3.

Position your learners around the room according to their IT experience – spread the experts out so they can help anyone around them who gets stuck!

If learners are *confident* Photoshop users:

Simply guide learners as they translate their drawn 1% poster designs into digital graphics using Photoshop.

It may still be a good idea to distribute Activity Sheets 4.1 and 4.3 so learners can record their prior and developing technical progress.

Activity 4.1
Getting to Know the Photoshop Interface

- Encourage learners to orientate themselves in Photoshop by exploring and experimenting with the tools in a new, blank document.
 - Learners can work individually or in pairs to record their initial findings on Worksheet 4.1.
 - Draw learners' attention to the vital role of layers as described in the middle of the worksheet.

Activity 4.2
Create a 1% infographic model

- Share the infographic on Worksheet 4.2 with learners and discuss:
 - What design ideas have been employed?
 - Pictograms and layered transparent colours
 - How effectively does it communicate the message about 1% of the world's population controlling half of the world's wealth?
 - Which Photoshop tools do you think were used in its production? In what order?
- Then monitor and support learners as they follow the steps on Worksheet 4.2 to recreate this model design. Encourage them to keep an up-to-date log of all the shortcuts and solutions to problems they encounter on Worksheet 4.4. Some examples of common problems have already been recorded.

Differentiation*Make it easier.*

- Demonstrate the design process from Worksheet 4.2 by working through the steps together using the projector.

Make it harder.

- Skip this session and move straight on to Session 5.

Please note: Photoshop is an incredibly sophisticated programme and it's easy for learners to get excited and/or overwhelmed quickly by all the creative possibilities. The tips and tricks introduced in this session are by no means exhaustive but should instead be used as a baseline to work from.

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Activity Sheet 4.1 Getting to Know the Photoshop Interface

Use the words in the word bank below to label this Adobe Interface. You will need to have Photoshop open so that you can hover over the tools to find out their names. Any remaining bar and window labels can be researched on the internet.

Quick (selection) & Magic Wand	Layer Window	Move Tool	Crop Tool	Colour Window
Marquee (selection) Tool	Gradient & Paint Bucket	Navigator Window	Type Tool	Options Bar
Fore/Background Colour	Menu Bar	Rectangle/Shape Tool	Lasso (selection) Tool	History Window



Activity Sheet 4.1

Getting to Know the Photoshop Interface

Teacher's copy

Use the words in the word bank below to label this Adobe Interface. You will need to have Photoshop open so that you can hover over the tools to find out their names. Any remaining bar and window labels can be researched on the internet.

Quick (selection) & Magic Wand	Layer Window	Move Tool	Crop Tool	Colour Window
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Fore/Background Colour	Menu Bar	Rectangle/Shape Tool	Lasso (selection) Tool	History Window



Worksheet 4.2 1% Infographic Model

To create a blue background:

Menu Bar > Select > All > RH Click > Fill > Blue

To create a crowd of pictograms:

Tool Bar > Custom Shape Tool > Shape > Settings Cog > All > scroll down and select pictogram of man
Fill > select white

Hold down Shift key while drawing shape to measure 0.56cm x 1.51cm

Tool Bar > Rectangular marquee tool > select around shape > Edit > Define pattern > Enter

Menu Bar > Layer > New

Tool Bar > Pattern Stamp Tool (under Clone Stamp)

Option Bar > Select Pictogram of man pattern & set brush size to 500px

Brush the pattern all over the canvas (Optional: leave some variation in tone)

To create the top layer with 2 large pictograms:

Menu Bar > Layer > New Layer

Tool Bar > Rectangular Marquee Tool > Draw a boundary box around bottom third of canvas

Menu Bar > Edit > Fill > Use > Colour > Orange

Repeat For top 2 thirds of canvas with blue

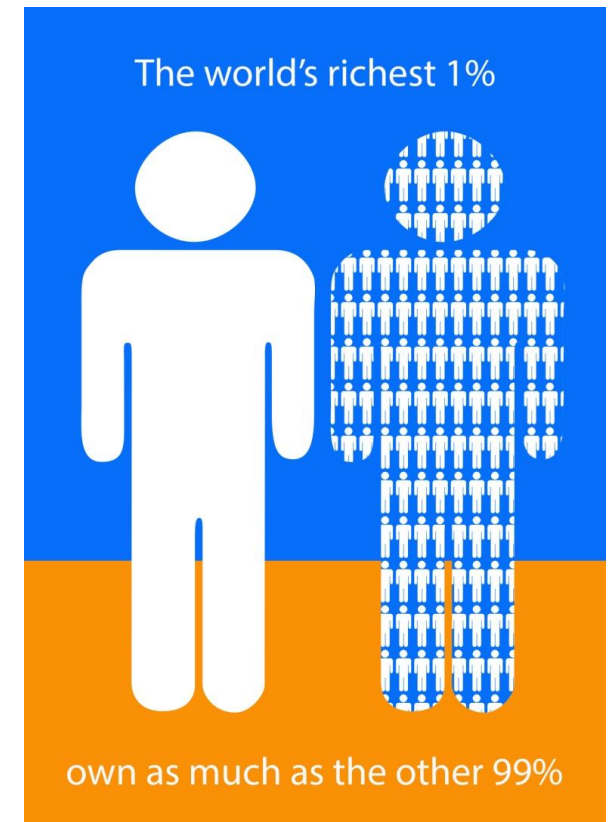
Tool Bar > Custom Shape Tool > Draw shape to stand on the left hand side of the canvas

Tool Bar > Move Tool > Hold Alt while dragging copy of shape onto right hand side

Layer Window > Highlight top 3 layers > RH Click > Merge Layers

Tool Bar > Magic Wand Tool > Select LH pictogram's head > Delete > Repeat for body

Tool Bar > Text tool > select desired size and typeface > Type text



Activity Sheet 4.3
My Photoshop tricks log

Problem	Solution and/or shortcut
1. My tool/function is not working	Option 1: Check which layer I am in (highlighted in blue in the Layers Window in the bottom right-hand corner) Option 2: Check that the previous function is finalised by pressing Enter on the keyboard and Ctrl+D
2. My computer is so slow!	Option 1: Image > Image Size > Reduce Resolution to 150 pixels/inch Option 2: Click the right-hand mouse button and select multiple highlighted layers that you have finished working on in the Layers Window to merge them
3. My image is pixelated or marked	Choose another image from Google Images > Search tools > Size > Large It's also a good idea to use the Search tools menu to filter for Usage Rights > Labelled for noncommercial reuse
4. The dimensions of my image warped when I transformed size	Edit > Step Backwards Free Transform again, this time holding down the Shift key while moving the boundaries
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