

Office Standards 2023



Excel Standards





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2023



1. Basic Skills 1
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Task 1 – Building a spreadsheet

The data below shows the scores for 8 students in English, Maths and Science tests. Your task is to complete the calculated values using functions. You will then format the spreadsheet and create some charts.

- Open a new workbook in Excel and copy the data on the right. Save as 'ES - Tests'.
- b. Use the MAX, MIN and AVERAGE functions to complete cells E2, F2 and G2 respectively. Format the average to a single decimal place.
- c. Select these three cells then use the fill handle to complete all the calculations in the range E3:G9.

1	А	В	С	D	E	F	G	Н
1	Student	English	Maths	Science	Max	Min	Ave	Total
2	Ahmad	72	82	79				
3	Beth	58	46	45				
4	Chi	65	68	64				
5	Dave	88	79	81				
6	Erin	90	82	85				
7	Fay	63	69	72				
8	Gareth	44	48	50				
9	Henry	75	69	68				
10	Average							

- d. Make cell **B10** active. Use the **AutoSum** facility to calculate the average score in the English test. Fill across cells **C10** and **D10**.
- e. Use any method to find each student's total score in column H. These cells should display the sum of the three values in columns B, C and D.
- f. Insert two rows at the top of the spreadsheet and enter the title 'Test Scores' into the new cell A1. Make the title dark blue, size 14, Arial Black text. Increase the height of the first row to 35 pixels.
- g. Format your data with bold and italics, as we have on the right.
- Select fill colours and borders to improve the presentation of your data.
- A В C D E F G Н **Test Scores** 1 2 3 English Maths Science Max Min Total Ave 4 Ahmad 72 58 82 82 72 77.7 233 79 46 58 45 5 Beth 45 49.7 149 6 Chi 65 68 64 68 64 65.7 197 Dave 88 79 81 88 79 82.7 248 90 82 85 8 Erin 90 82 85.7 257 9 63 69 72 72 63 68.0 204 Fay 10 44 48 50 44 47.3 142 Gareth 75 69 68 75 68 70.7 212 11 Henry 69.4 67.9 68.0 12 Average 205.25
- Create a column chart showing the English test scores for each student. You should select the range A3:B11 which includes both the names and the scores. Format your chart.
- j. Create a line chart displaying Erin's three test scores. Begin by selecting the range A3:D3, then holding down the Ctrl key and selecting the range A8:D8.

Note: This chart might be a bit meaningless but it's good practice.

k. Create a pie chart displaying the Science results. See if you can work out how to include the labels as shown on the right. Don't worry if you can't.

Note: Again, in reality this is poor way to represent this data. We are practicing skills.

I. Save your work.









Validation is used to control the data that can be entered into a cell. For instance, you may allow only the following:

- Whole numbers between 1 and 100
- Dates after 2008
- Text of 15 characters or less
- Decimals over 1.0

In Excel, an alert is shown when the user tries to enter a value outside the limits. The following styles of alert are available:

- Stop The value will not be accepted. The user will have to change it.
- Warning A warning will be displayed and the user has the option of changing the value or continuing.
- Information The user is informed that the value is outside the limits, but no change is requested.

Task 1 – Validating whole numbers

- Open a new workbook in Excel and save as 'ES Validation'.
 Copy the spreadsheet on the right.
- b. Make cell A2 active and click on 'Data Tools / Data / Data Validation'.
- c. Set up the options as shown on the right. These will allow only whole numbers between 10 and 100.
- d. Click on the **Input Message** tab and enter the *Title* and *Input message* as below.

Settings Input Message Error Alert								
Show input message when cell is selected								
When cell is selected, show this input message:								
<u>T</u> itle:								
<u>T</u> itle: Whole Number Restriction								
<u>T</u> itle: Whole Number Restriction Input message:								

- e. Click on the Error Alert tab. Make sure the style is set as **Stop** and enter the *Title* and *Error message* shown on the right. Click **OK**.
- f. Test your validation by entering a range of values or text into cell A2 (e.g. 0, 50, 150, 5.5, 12/12/22, 'hello' etc).

	Α	В	С	D
1	Number	Decimal	Date	Text Length

Data Validation		?	\times
Settings Input Message	Error Alert		
Validation criteria			
Whole number	✓ ✓ Ignore <u>b</u> lank		
<u>D</u> ata:			
between	~		
Minimum:			
10	1		
Ma <u>x</u> imum:			
100	Ť		



Whole Number Restriction							
This number is not between 10 and 100.							
Retry Cancel Help							

Validation (page 2)



Task 2 – Other validations

a. Create a **Decimal** validation in cell **B2**. Use the following criteria:

Minimum number	1.5
Maximum number	5.5
Titles	'Decimal Restriction'
Input message	'You must enter a decimal number between 1.5 and 5.5.'
Error alert style	Warning
Error message	'This is not a decimal number between 1.5 and 5.5.'

b. Create a **Date** validation in cell **C2**. Use the following criteria:

Earliest date	3/3/23
Latest date	4/4/24
Titles	'Date Restriction'
Input message	'You must enter a date between 3/3/23 and 4/4/24.'
Error alert style	Information
Error message	'This is not a date between 3/3/23 and 4/4/24.'

c. Create a Text length validation in cell D2. Use the following criteria:

Minimum characters	6
Maximum characters	12
Titles	'Text Restriction'
Input message	'You must enter text between 6 and 12 characters in length.'
Error alert style	Stop
Error message	'This is not text between 6 and 12 characters in length.'

Task 3 – Validation questions

a. Click on each of the cells which have validation rules set and try entering a range of values. When and where do the following objects appear?

i.	Input message title	
ii.	Input message	
	Error alort title	
	Error alert title	
iv.	Error alert	

It is sometimes desirable to display different values or text in a cell depending on some condition. For example, you may want to ask a question then display the comment 'Right' if the answer entered is correct, or 'Wrong' if it is not. We can use the IF function to decide which comment is displayed. The IF function works like this:

IF the answer is correct

THEN display the word 'Right'

ELSE display the word 'Wrong'

Task 1 – Using the IF function

- a. Open a new workbook in Excel and save as 'ES
 IF Function'.
- **b.** Copy the spreadsheet on the right. Note the following:

	А	В	С	D	E	F	G
1		Multip	ication				
2							
3		Box 1		Box 2		Answer	
4		5	х	2	=		Incorrect
5							

- If you try and type the = sign on its own, then the spreadsheet will think you are starting a formula. It is
 necessary to type the text as '=
- Just type the word 'Incorrect' into cell **G4** at first and format it. We will add the formula next.
- c. Select cell G4. This is where the 'Right' and 'Wrong' text will be displayed. Click on 'Formulas / Function Library / Logical' and select the IF function.
- d. Enter the data as shown on the right and click
 OK.
- e. Test your spreadsheet by entering different values into cells **B4**, **D4** and **F4**.

Box 1		Box 2		Answer		
17	х	3	=	51	Correct	

f. Click back on cell **G4** and look at the text version of the function that you created in the formula bar. This could have been typed directly.

unction Arguments					
IF					
Logical_test	F4=B4*D4	<u>1</u>	=	FALSE	
Value_if_true	"Correct"	1	=	"Correct"	
Value_if_false	"Incorrect"	Ţ	=	"Incorrect"	

=IF(F4=	=B4*D4,	"Correct".	"Incorrect")	l



ACCESS Standards



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Α

2023



1. Basic Skills 1
2. Basic Skills 2
3. Data Issues
4. Queries
5. Query Criteria
6. Wildcards
7. Select SQL
8. Exporting Data
9. Lookup Columns
10. Subdatasheets
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14 Validation



Queries are used to retrieve or manipulate the data in our database tables. At this stage, we will only be using SELECT queries which are essentially filters that you can edit. Data can be retrieved and displayed based on criteria such as:

Fields and Tables	The fields that should be displayed and the tables they are present in.
Records	Records can be filtered by date, the text they contain, numbers over a set amount etc.
Order	The records can be placed in a particular order.

When a query is executed, the results appear in a datasheet. This is a filtered display of data – the actual tables have not been changed in any way. The tasks below use a query builder to produce queries.

Task 1 – Building a query

A database holding information about members of a bowling club was created in a previous task. Either create a copy of this file as your starting point or create a new database and table for the data below. Name the database '**AS** – **Queries**' and the table '**Members**'.

ID	First_Name	Last_Name	Registered	Date	Amount_Paid	Played
1	Sarah	Johns	Yes	01-Mar-23	\$50.00	5
2	Charles	Collins	No		\$40.00	4
3	Richard	Chew	Yes	01-Mar-23	\$50.00	5
4	Paul	Logan	Yes	05-Apr-23	\$50.00	5
5	Gareth	Jones	No		\$30.00	4
6	Amelia	McDermott	Yes	01-Mar-23	\$30.00	3
7	Lisa	Holmes	Yes	05-Apr-23	\$50.00	5
8	Mark	Stone	Yes	08-Mar-23	\$40.00	4

Our first query will display the results on the right. Three fields have been selected for the datasheet. Only people who have played 5 games are visible and the data is sorted by last name, ascending.

- a. Open your database and click on 'Create / Queries / Query Design'.
- b. In the Add Tables panel on the right, select the Members table and click the Add Selected Tables button (or simply double-click on the table name to add it to the query).

A small box showing the fields in your table will appear in the query builder window.

c. Resize the small box so that all the field names can be viewed.

Add ⁻	Tables	5		×
Tables	Links	Queries	All	
Search				

Query1

Richard

Lisa

Sarah

Paul

First_Name -



Last_Name •

Chew

Johns

Logan

Holmes

Played

5

5

5

5



Task 1 – Building a query (cont.)

- d. Working in the lower half of the window, select the *First_Name* field from the drop-down list in the first column (as on the right). This field will be displayed in the first column of the results datasheet.
- e. Select the *Last_Name* field from the second column. Click on the **Sort** box and select *Ascending* from the choices (as below). This sorted field will be displayed in the second column of the results datasheet.

	Registered Date Amount_Paid Played		
Field:	First_Name	N	
Table:	Members	ЬŞ	
Sort:			
Show:	\sim		
Criteria:			

Field:	First_Name	Last_Name	
Table:	Members	Members	
Sort:		~	
Show:	\checkmark	Ascending	
Criteria:		Descending 🖌	
or:		(not sorted)	

f. Select *Played* in the third column. In the *Criteria* box type '=5'. This will return only records for the people who have played 5 games.

Field: Table:	First_Name Members	Last_Name Members	Played Members	_ /
Show: Criteria:			=5	Criteria box

- g. Run the query by selecting 'Query Design / Results / Run' (although clicking on the Datasheet View icon will do the same thing in this case). How many records and fields are returned?
- h. Return to *Design View* and remove the check from the Show box in the *Played* column. How many records and fields are returned now?

Use this icon to switch between Datasheet View and Query Design View.



 Field:
 First_Name
 Last_Name
 Played

 Table:
 Members
 Members

 Sort:
 Ascending

 Show:
 Image: Criteria:

Remove the check from the *Show* box in the played column.

All	Access Objects	∍ <
Tab	les	^
	Members	
Que	ries	^
1	Played5	
For	ns K	^
==	Members	

i. Close the query and name it 'Played5'. The query will be added to the *Navigation Pane* on the left and can be opened and edited at any time.



Subdatasheets allow you to expand a table to display more information about a certain record. For example, you may have a table of volleyball teams. You can then expand any of the records so that the players in the team are displayed. The information about the players is stored in a second, linked table.

	ID 👻	TeamID 👻	TeamName 🔹									
R	1	Team1	Allstars									
₽2,	2	Team2	Bananas									
÷	3	Team3	Croonies			ID 🔻	-	TeamID 🔹	Tei	amName 🔹	Clic	k to Add 🚽
					J.	1	l Te	am1 PlayerID	All	stars FirstName		LastName
							1	Player1		Andy		Allbright
		Data fro	om a				2	Player2		Amy		Anderson
		second	Players		*	(N	ew)					
		table		+		2	2 Te	am2	Bar	nanas		
				+		з	B Te	am3	Cro	onies		

Subdatasheets enable you to view other relevant data in the same window. They can also reduce the amount of repeated information in the database, making the updating of records easier and less prone to errors.

For subdatasheets to function correctly there must be a field that connects the two tables. In our example, each team in the *Teams* table has a *TeamID*. The *Players* table is also given a *TeamID* field and each player is assigned one of the *TeamID* codes. The two tables can then be joined using this field.

Task 1 – Creating a subdatasheet

- a. Create a database named 'AS Subdatasheets1'
- b. Create a table as shown on the right. Name the table *Teams*.
- c. Create a second table called *Players* as shown on the right. Notice that both tables have a field called *TeamID*. This will be used to link the tables together.

\angle	ID 🔹	TeamID 🔫	Team_Name 🔹
	1	Team1	Allstars
	2	Team2	Bananas
	3	Team3	Croonies

2	ID 👻	TeamID 🔹	First_Name •	Last_Name 👻 🤇
	1	Team1	Andy	Allbright
	2	Team1	Amy	Anderson
	3	Team2	Ben	Bellamy
	4	Team2	Bridget	Bardot
	5	Team3	Carl	Cuthbertson
	6	Team3	Cindy	Carlton

d. Open the Teams table in *Design View* and click on '**Table Design / Show/Hide / Property Sheet**'. The *Property Sheet* opens in a panel on the right.



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Home

Create

External Da

X Cut



It is possible to store and view images in an Access database. You may, for example, wish to create an address book with a photo alongside each person's details. In this task, we will insert the images into a table so that they can be viewed in a form or report.

Note: In practice, this is not actually a very good method of storing images. The database file can grow very large and may become unstable. Better solutions involve storing image files outside the database and linking to them from the table. This option is covered in the extension task.

Task 1 – Creating a field for the images

We will create a table with information about animals and add pictures from the web.

- Create a database named 'AS Images'. а.
- Switch the table to Design View and b. add the fields shown. The images will be of the data type OLE Object.
- Return to Datasheet View and enter C. some data. Leave the Image field blank for now. You may choose your own animals.
- d. Open your web browser and find a small picture for your first record.

1 Copy View S Forma Animals Datasheet View Field Name Data Type 😵 ID AutoNumber Animal Short Text Class Short Text Vertebrate Yes/No Image OLE Object

ID 👻	Animal 👻	Class 👻	Vertebrate -	Image	-
1	Dog	Mammal	v		
2	Lizard	Reptile			
3	Eagle	Bird			
4	Crab	Crustacean			
5	Spider	Arachnid			

- Right click on the picture and select Copy Image (or the equivalent in your browser). е.
- Return to Access and place the cursor in the first Image field. Right click and select Paste. Your datasheet will simply f. show the word Picture.
- Repeat for the other animals. g.

Task 2 – Viewing the images in a report

Now the images have been inserted into a table, you can view them in a form or report. Produce a simple report for the Animals table. Display all fields except the ID field.

1	ID 👻	Animal 👻	Class 👻	Vertebrate 👻	Image 🚽
	1	Dog	Mammal		Picture
	2	2 Lizard	Reptile		Picture
		Farle	Rird		Dicture

Animal	S	Sunda	y, 30 April 2023 12:44:55 PM
Animal	Class	Vertebrate Image	
Dog	Mammal		
Lizard	Reptile		2
Eagle	Bird	⊻	4







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1. Basic Skills 1
2. Basic Skills 2
3. Indents and Margins
4. Paragraphs
5. Tabs
6. Bullets and Numbering
7. Tables - Designing
8. Tables - Text and Alignment
9. Tables – Borders and Shading
10. Text Effects
11. Subscripts and Superscripts
12. Pictures
13. Shapes



Task 1 – Typing text

- a. Open a new blank document in the application Microsoft Word. The flashing bar is called the *cursor*.
- **b.** Type Passages 1 and 2 exactly as they appear below, completing the sentences using the following words.

	delete	galleries	underl	ined caps lock	back	kspace	shift	
	word-wrap	arrow	space	live preview	italic	bold	enter	Decesso 1
Tyning								
- yping								
This is norma	al text, typed us	sing the lett	er keys, pu	nctuation keys and	the		bar.	
This is a new should keep	on typing. This	ated by pre paragraph	ssing the _ flows from	one line to the ne	ey. When ktautomati	you reach ically. This	the end of a line s effect is known	e you Fas
This is a new together.	line but not a	new paragra	iph, achiev	ed by pressing the		ar	nd enter keys	
THESE ARE U	IPPER CASE LET	TERS, CREA	TED WITH ⁻	THE SHIFT OR		KEYS.		
Editing								
If we make a	mistake, we ca	n place the	cursor at t	he end of the text	then delete	e it using tl	he	
key. We can	also place the	cursor befo	re the text	and delete it with	the		_key. We can p	lace
the cursor us	sing the mouse	or the		keys.				
Formattin	Ig							
We can crea Formatting a	te bold text by toolbar.	selecting w	ords or se	ntences, then click	ing on the		icon in	the
<u>This is bold,</u>	italic, underline	ed text.						
You can easi	ly create bold t	ext by press	ing the Co i	ntrol and letter B k	eys togethe	er (Ctrl + B)	
The shortcut	for	text	is ' Ctrl + l '	,				
The shortcut	for	text	t is ' Ctrl + L)'				
Font								
This text sho	ould be typed us	ing Arial siz	e 10 font.					
This text	t should be	e typed	using V	/erdana size	12 bold			



You probably know how to use simple bullets and numbering using the icons in the toolbar. This task shows you how to use:

- The default symbols for your bullets
- Description: The symbols available in the Wingdings and Webdings fonts
- Pictures from the clipart gallery
- 1) Numbered lists, including:
 - a) letters
 - b) multilevel lists
 - i) like the one used here
 - ii) ...

Task 1 – Selecting bullets

- a. Open a new page in Microsoft Word and save as 'WS Bullets'.
- **b.** Type a heading and start a new paragraph.
- c. Navigate to 'Home / Paragraph' and select the drop-down menu next to the **Bullets** icon. This will open the *Bullets Library*.
- d. Select one of the bullets from those available.
- e. Type this list of points:

 \geq



- There are many types of bullets.
- These are one of the default bullets.
- f. Leave a space using the **Enter** key and open the *Bullets Library* again.
- g. Click on the **Define New Bullet** button then the **Symbol** button in the dialogue box that opens. Make sure the *Symbol* font is selected.
- Click on the heart then OK, then OK again to close the dialogue box. Type the word 'Hearts'.
- i. Press the Enter key twice to finish this list.
- j. Repeat the above procedure and select the spade shape. Continue until you have all 4 suits as shown on the right.
- k. Look in the other fonts to find the bullets on the right and type the list as shown.
- I. Save your work.





- i This man is found in the Webdings font.
- The smiley face is a Wingding.
- ✤ Look in Wingdings 2 for this star.
- ➔ Find this arrow in Wingdings 3.

Hearts

- Spades
- Diamonds
- Clubs



In this section we will look at how to use the following font effects:

- Subscripts1 (below the line)
- Superscripts² (above the line)

You can set subscripts and superscripts using the icons in the 'Home / Font' group. However, we are going to speed things up by learning the shortcuts. These are much quicker when you have lots of tricky formatting to cover.



Task 1 – Subscripts and superscripts

- a. Open a new page in Microsoft Word and save as 'WS Subscripts'. Add your headings and start a new paragraph.
- b. Type the word 'Subscripts' then press the CTRL and = keys together ('CTRL + ='). The cursor should now be smaller and slightly lower. Type a number '1'. It should appear as a subscript.
- c. Press 'CTRL + =' again to return to normal font. Continue the sentence with the words 'and superscripts'.
- d. Press 'CTRL + Shift + ='. The cursor should now be smaller and slightly higher. Type a number '2' as a superscript.
- e. Press 'CTRL + Shift + =' again to return to normal font and finish the sentence as shown below.

Subscripts1 and superscripts2 are used for references, as well as mathematical and chemical equations.

Task 2 – Subscripts and superscripts practice

Start a new paragraph and type the equations and expressions below.

- a. $4Ag + O_2 \rightarrow 2Ag_2O$
- b. 4Fe + 3O₂ → 2Fe₂O₃
- c. $2H_2 + O_2 \rightarrow 2H_2O$
- d. $Mg_{(s)} \rightarrow Mg^{2+}_{(aq)} + 2e^{-}$
- e. $SO_4^{2-} + 4H^+ + 2e^- \rightarrow SO_2 + 2H_2O$
- f. $a^2 = b^2 + c^2 2bc.CosA$
- g. 1.036 x 10⁷
- h. 15_{base10} = 1111_{base2}

HINT: Type - - > with no spaces and it should change to an arrow. If this doesn't work, then click 'Insert / Symbol' and select an arrow.



In this section, we will look at some of tools available for the organisation of pictures in your document. These include:

- Inserting clipart and other pictures
- Positioning pictures on the page
- Changing the appearance of pictures

Task 1 – Inserting, resizing, rotating and cropping pictures

- Open a new page in Microsoft Word and save as 'WS Pictures'.
 Add your titles and start a new paragraph.
- b. Click 'Insert / Illustrations / Pictures' and select Online Pictures.
 Search for a subject of your choice (we asked for 'Animals').
- c. Double-click on a picture to insert it.
- **d.** Resize your picture by clicking once on it then dragging the handles that appear in the corners and on the edges.
- e. Rotate the image using the handle at the top.
- f. You may crop pictures if there are sections around the edge that you would prefer to hide. Select your picture and click 'Picture Format / Size / Crop' (or right click and select Crop). Move the crop handles towards the centre, reducing the amount of the image that is visible. Click outside the image or press Enter to apply the crop.





Expert advice: When cropping, the hidden parts of the image remain intact. The file will therefore be larger than necessary in size. The advantage is that you can 'uncrop' your image later if required.

Task 2 – Positioning pictures in text

Without any other content on the page, there is limited scope to drag your image around by default.

- a. Using lots of copy and paste, create a paragraph of text. Try dropping the image in various places over the top of the words. Find out how the text behaves.
- b. Try positioning the picture using the nine options under the 'Picture Format / Arrange / Position' icon.

This is some text. This is some

some This is text. This some This is text. This some This is text. This some text. This is some text.



PowerPoint Standards





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1. Basic Skills 1
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3. Further Animation
4. Tables
5. Charts
6. Inserting Spreadsheets
7. Advanced Animation
8. Slide Master
9. Advanced Colour
10. Action Buttons



Task 1 – Create a full presentation

In this task you will create a presentation with at least three slides. Your presentation can be about any subject that you are interested in, for example a sport, a hobby or a pop group.

Note: Don't take too much time looking for the perfect picture or detailed facts. The aim here is to demonstrate your PowerPoint skills before moving on to new advanced ideas.



- a. Open a new PowerPoint presentation and set the slide size to *Standard (4:3)* (in the **Design** tab).
- **b.** Select a suitable theme.
- c. Create a title page with a strong, bold title. Include two or three pictures that are introduced through different animations chosen from the *Animation* gallery. Use the *Animation Options* to fine tune your animations (e.g. we have the plane flying in from the right).
- d. Create a second page using the *Two Content* layout. Give the page a title and write two or three facts. Animate the text.
- e. Insert a picture, change it to *Washout* and place it behind some of the text. Make sure that the text can still be easily read.
- f. Select a slide transition and apply it to all slides.
- g. Create two or three other slides. You may make changes such as increasing the size of the title but apply these changes throughout. Any changes to the theme should be applied to all slides so that you produce a professional looking presentation.
- h. Check your spelling and grammar.
- i. Save your presentation as '**PS Basics**'. Also save it as a *PowerPoint Show* so that it opens directly.





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Open Microsoft Excel and copy the data on the right. Save the file as 'Inserting Spreadsheets' in the same folder as your presentation.

Type 'Population Growth' in the placeholder. Format the text if you like.

Open your PowerPoint Standards presentation and add a new slide with

- Select and copy the 12 cells of data (i.e. the range A1:C4). Use 'Home / Clipboard / Copy' or 'Ctrl + C'. d.
- Return to your new PowerPoint slide and click on 'Home / Clipboard / Paste' (or 'Ctrl + V'). PowerPoint will create a e. table for the data (you may need to change the text colour if the data is not visible in the table). Right click on the data to convince yourself that this is a simple table and not an embedded spreadsheet.

It is possible to present data from Excel in a PowerPoint presentation. Although displaying data is quite straightforward, there

are several subtly different results depending on how you go about the task. We will look at the various ways in which

- Format and resize the table to suit. f.
- Move the table to the top left of the slide. Insert a text box below with the words '1. Simple Paste' (see the picture g. lower down this page).

Task 2 – Inserting an embedded spreadsheet

- Copy the data from your spreadsheet again. Click on the arrow below the а. 'Home / Clipboard / Paste' icon and select Embed.
- Double-click on the new table. You should find that it opens a small Excel b. spreadsheet in the slide. This is in fact an embedded spreadsheet. You may edit the data here. Close the spreadsheet window again.
- Right click on the table and select 'Worksheet Object / Open' to view the с. data in Excel. Format the cells then close Excel to view the changes in your presentation.
- Move the table to the top d. centre of the slide and label it as on the right.

	2021	2022	6	2021	202
oirth	45	58	birth	45	5
doath	22	40	death	32	4
	52	49	growth	13	9

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1. Simple Paste

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spreadsheets can be introduced into your presentation.

the Title Only layout (not a Title Slide).

Task 1 – Pasting data as a table

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	Α	В	С
1		2021	2022
2	birth	45	58
3	death	32	49
4	growth	13	9



PowerPoint offers lots of possibilities for animating objects within slides. We will investigate some more of these below. As these are actually large topics in themselves, we will only touch on them here.

Task 1 – Animating a chart

- a. Open your 'PowerPoint Standards' presentation and select the page titled Population Chart.
- b. Select the chart. Click 'Animations / Advanced Animation / Add Animation' and select Wipe from the Entrance group.
- c. Click 'Animations / Advanced Animation / Effect Options' and select
 By Element in Category (see right).
- d. Select 'Slide Show / Start Slide Show / From Current Slide'. Click the mouse to see how the chart elements are introduced.
- e. Explore the other possibilities with chart animation.



Task 2 – Animating drawing objects

In PowerPoint, you can use the 'Insert / Illustrations / Shapes' menu to add lines, arrows, text boxes and other simple objects to your slides.

- a. Select the slide titled *Population* which contains the first table created.
- We want to highlight the differences in population between males and females.
 Click on 'Insert / Illustrations / Shapes' and select the *Rounded Rectangle*. Draw a shape that surrounds the number 63.
- With the new shape selected, click 'Shape Format / Shape Styles / Shape Fill' and select No Fill.
- click 'Shape Format / Shape Styles / Shape
 Outline' and select a Red colour.
- e. Hold down the **Shift** key and use the arrow keys to resize the box until it is a suitable size.
- f. Hold down the **Ctrl** key and use the arrow keys to nudge the box into position neatly around the number.
- g. Copy and paste the rectangle. Place the new shape over the number 78.







You may save a PowerPoint to be *Browsed at a kiosk*. This type of presentation is designed to display a slide show at a kiosk in a public place. No menus are available. This is to prevent the user from exiting the presentation and using the computer for other purposes. On a personal computer, the presentation will continue until the **Escape** key is pressed.

As there are no menus, a kiosk presentation uses *Action Buttons* for navigation. Action Buttons are usually activated through a touchscreen, although you can also use your mouse when working on the presentation. The kiosk itself will generally have no keyboard so the action buttons are the only way to navigate the presentation. You must therefore be careful not to allow the user to get stuck on a slide. With this in mind, we will be adding our Action Buttons to the *Slide Master*.

Task 1 – Adding action buttons to a presentation

- a. Open your 'PowerPoint Standards' file and navigate to the Concourse Slide Master.
- b. Click 'Insert / Illustrations /Shapes' and select the second Action Button (Go Forward or Next). The cursor should change to a cross.
- c. Insert the Action Button by drawing a rectangle on the screen. The *Action Settings* window will open when you release the mouse.

The effects of clicking on or passing the mouse pointer over the button can be set. In this case, the action is predefined and no changes are necessary; it will move the presentation onto the next slide when the mouse is clicked. Click **OK**.

- d. Using a similar method, add buttons for *Previous*, *Beginning* and *End*.
- e. Hold down the **Shift** key and select all four buttons.
- f. Open the **Shape Format** tab and use the tools in the *Size* group to set a height of **1cm** and a width of **1.5cm**.
- g. With the buttons still selected, click 'Shape Format / Arrange / Align' and select Top.
- h. Use the left and right arrow keys to move the buttons alongside each other. Select all the buttons again then click 'Shape Format / Arrange / Align' and select Distribute Horizontally.
- Group the buttons by selecting them all then clicking 'Shape Format / Arrange / Align' and selecting Group. Move the buttons to a suitable location on the slide, possibly above the line in the bottom right corner.

If you wish, you may use some of the options in the **Shape Format** tab to change the design of the buttons.



Action Buttons	
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Action Button: Go Forward or Next	.:. 6

Action Settings	?	×
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Action on click		
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Next Slide		×
O <u>R</u> un program:		