Victorian Times

Assessment Focus

Managing Data

- Explore 2*
- Evaluate
- Exhibit

* Explore 2 refers to the second bullet point of Explore in the Levels of Progression.

Pupil Notes

Level 3	Part 1a and Part 1b
Level 4	Part 1b and Part 2

Task Description

This task can be used to support a topic on The Victorians. It is set out in 3 parts. The pupils are provided with a spreadsheet which they use to investigate the cost of employees' wages in a Victorian Manor House. They have the opportunity to manipulate the data and investigate the effects of making changes in order to solve problems. The teacher should download the associated task spreadsheet.

![cea Rewarding Learning]

Victorian Times

Prior Knowledge/Experience

Depending on the level at which they are working, pupils should have some experience in some of the following:

- inputting data into spreadsheet cells; and
- investigating changing variables in a given spreadsheet to solve problems.

Resources

Suitable software such as: Numberbox 2, MS Excel.

Download the spreadsheet.

Screenshot of Spreadsheet

Employee	Wages	Number	Wage Totals
Butler	40	1	40
Housemaid	16	7	112
Gardener	20	4	80
Cook	20	1	20
Governess	12	1	12
Chimney Sweep	10	1	10
Stable Boy	8	4	32
Lady's maid	20	1	20
Coachman	20	4	80
Housekeeper	40	1	40
Scullery Maid	9	2	19
Total			464

Answer to Part 1a

Victorian Times

Employee	Wages	Number	Wage Totals
Butler	40	1	40
Housemaid	16	4	64
Gardener	20	5	100
Cook	20	1	20
Governess	12	1	12
Chimney Sweep	10	1	10
Stable Boy	8	1	8
Lady's maid	20	1	20
Coachman	20	2	40
Housekeeper	40	1	40
Scullery Maid	9	3	27
Total			381

Managing the Task

Pupils should be given opportunities to:

Plan

Pupils should consider and discuss the changes they will need to make and how these changes will affect the end result.

Do

Pupils should work individually to carry out the required changes to the spreadsheet. They should be given time to manage and investigate the stored data.

Depending on the level at which they are working, pupils should save, store and retrieve their work appropriately.

Review

Pupils should be given the opportunity to discuss with their peers the decisions they made regarding staffing of the house. They should reflect on the process and make any improvements if required.

Evidence for External Moderation

As well as submitting the completed files, please include;

- a pupil evaluation at the appropriate level

Victorian Times

Assessing Pupils' Responses to the Task

The first column of the Assessment Criteria Grid sets out the Requirements for Using ICT that are covered in this task. Alongside this are the Levels of Progression and the Using ICT Desirable Features for Managing Data at Levels 3 and 4. These Desirable Features have been produced as guidance for teachers to consider when observing a pupil and assigning a level to a piece of work. When coming to a holistic judgment of the pupil's level of Using ICT competence, teachers should ensure that these Desirable Features are used in conjunction with the Using ICT Levels of Progression.

Assessment Criteria Grid		
Using ICT Requirements	**Level 3**	**Level 4**
Explore • investigate, make predictions and solve problems through interaction with digital tools.	Pupils can: • carry out and edit a series of instructions, make predictions and solve problems using a digital device or environment;	Pupils can: • investigate and solve problems in a digital environment;
Evaluate • talk about, review and make improvements to work, reflecting on the process and outcome and consider the sources and resources used, including safety, reliability and acceptability.	• make modifications to improve their work; and	• use appropriate ICT tools and features to improve work; and
Exhibit • manage and present their stored work and showcase their learning across the curriculum, using ICT safely and responsibly.	• save using file names and select work to showcase learning digitally.	• select, organise, store and retrieve their work to showcase learning digitally in a personalised area.

Pupils should demonstrate, when and where appropriate, knowledge and understanding of e-safety including acceptable online behaviour.

Victorian Times

Desirable Features	
Managing Data – Level 3	**Managing Data – Level 4**
Pupils can: • input their own or given data into a given database or spreadsheet; • solve simple problems using some of the facilities available in a given database or spreadsheet; and • make observations and draw conclusions, *for example make comments about the data, results or graphical representation*.	Pupils can: • make predictions and solve problems using a given spreadsheet; • demonstrate an understanding of what is meant by the terms cell, formulae, rows and columns; • use a range of sources, such as catalogues, internet sites, tables or lists, to research the data needed to solve a problem; • input data from their own research into a given spreadsheet; and • answer simple questions by using SORT or using simple formulae such as + and -.

Victorian Times

Part 1a

You are a Victorian Landlord living in a Manor House in the 1870's. You have had to make some changes to your staff for various reasons.

Use the spreadsheet your teacher has given you to calculate the change in wages when:

- 3 housemaids and 2 stable boys are dismissed;
- 2 of the coachmen are no longer required;
- one more scullery maid is employed; and
- one of the stable boys is promoted to gardener.

Give your spreadsheet a suitable name and save it in your documents folder.

Victorian Times

Part 1b

Use the original spreadsheet that your teacher gave you.

It is expensive to run a big house. You are having problems making ends meet and now you have decided that you can only afford to spend £350 on staff wages at most.

Use your pre-prepared spreadsheet to find out which servants you can do without.
Try to get as close as possible to £350.

Be careful who you get rid of as you might have to do the work yourself! Change the number of servants until you have reduced your wage bill to £350 or just less.

Give your spreadsheet a suitable name and save it in your documents folder.

Discuss the changes you have made with a friend.

Topic Folder

Victorian Times

Part 2

The following year your cook and your butler tell you that they wish to leave your house and go to work somewhere else.

You find out that they have been offered higher wages by a neighbouring landlord. You decide to increase their wages by giving the butler £10 extra per year and the cook £5 extra per year so that they will stay with you.

Open the original spreadsheet, work out what their wages would now be and adjust the spreadsheet.

In that year you have become a parent again and now need to employ a nursery nurse to look after the baby. Carry out some research on the internet and try to find out what wages a nursery nurse would have earned in Victorian times.

Add this information to the same spreadsheet.

Use the "sum" facility of the spreadsheet to calculate your total number of employees. Format the cell so that the font, alignment and text colour are the same as the other number cells. Give your spreadsheet a suitable name and save it to your documents.

Discuss the changes you have made with a friend.

Illustrations © thinkstock.com