

KESTEVEN AND SLEAFORD HIGH SCHOOL



Computing Scheme of Learning

Year 8 – Topic 4 – Spreadsheets

Intent – Rationale

Topic Intent: *The aim of this unit is to further develop students' knowledge of spreadsheets focusing on keywords and formatting, formulae, and functions, using a "Cost of Living" context to introduce students to the concept of personal finances and expenses relating to family life in the UK.*

Curriculum Intent: *Develop skills to support future study, work and life in the modern world*

KS3 PoS: *Design, use and evaluate computational abstractions that model the state and behaviour of real-world problems and physical systems*

Sequencing – what prior learning does this topic build upon?	Sequencing – what subsequent learning does this topic feed into?
<ul style="list-style-type: none"> • KS2 Computing (to varying degrees) • Y7 Topic 4 (Spreadsheets) 	<ul style="list-style-type: none"> • Y9 Topic 6 – Core Office Skills
What are the links with other subjects in the curriculum?	What are the links to SMSC, British Values and Careers?
<ul style="list-style-type: none"> • Mathematics: Averages, sum/product, BODMAS, charts & graphs 	<ul style="list-style-type: none"> • GB4d & GB4e
What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?	What are the opportunities for developing mathematical skills?
Directly linked to topic <ul style="list-style-type: none"> • https://www.bbc.co.uk/bitesize/guides/zdydmp3/revision/1 Wider Reading/Interest: <ul style="list-style-type: none"> • https://thenewstack.io/how-visicalcs-spreadsheets-changed-the-world/ and https://www.bbc.co.uk/news/business-47802280 	<ul style="list-style-type: none"> • See curriculum links above

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Intent – Concepts

What knowledge will students gain and what skills will they develop as a consequence of this topic?

Know

- Understand how to search for and judge the suitability of data
- Understand the purpose and use of common functions and formulae, including the importance of BODMAS and how to use cell references and cell ranges correctly
- Understand the role of and be able to create hyperlinks in Office documents
- Understand some of the routine expenses associated with living in the UK

Apply

- Practice and extend Excel skills
- Carry out research into the Cost of Living
- Develop an attractive and easy to use Cost of Living spreadsheet model that uses formatting, formulae, functions and charts to accurately calculate and present numeric information

Extend

- Investigate and use more advanced functions and conditional formatting in Excel

What subject specific language will be used and developed in this topic?

What opportunities are available for assessing the progress of students?

- *Workbook:* A spreadsheet file
- *Worksheet:* One page within a workbook
- *Column:* A vertical collection of cells identified by letter e.g. Column A
- *Row:* A horizontal collection of cells identified by number e.g. Row 1, Row 2
- *Cell:* The intersection of a Column and Row e.g. Cell A1, Cell B2
- *Range:* An identified range of cells e.g. A1:A5
- *Formula:* Statement that uses standard mathematical operators (e.g. +, -, *, /)
- *Function:* A predefined routine that performs common calculations (e.g. SUM)

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Intent – Concepts

Lesson title	Learning challenge	Higher level challenge	Suggested activities and resources
1: Structure and Skills Recap	Can I use basic formulae and functions	Can I analyse survey findings using Excel	http://moodle.kshs.uk
2: Cost of Living Research	Can I find relevant data	Can I question and check data reliability	
3-4: Cost of Living Calculator	Can I use my prior knowledge to create a cost of living calculator	Can I present my information clearly and attractively?	
5: Onscreen Assessment			
DiRT time in proceeding lesson (20 mins)			Booklets