



Purple Mash Computing Scheme

Spreadsheets *****

Contents

Overview

- Key Learning
- Knowledge Organiser and Learning Mat
- Concept Map and Quiz

Lesson 1: Revisiting Spreadsheets

- Aim
- Success Criteria
- Resources
- Preparation

Lesson 2: Converting Measurements

- Aim
- Success Criteria
- Resources
- Preparation
- Teaching Notes

Lesson 3: Creating Line Graphs

- Aim
- Success Criteria
- Resources
- Preparation

Lesson 4: Tracking Weather Patterns

- Aim
- Success Criteria
- Resources
- Preparation
- Teaching Notes

Lesson 5: Planning and Budgeting an Event

- Aim
- Success Criteria
- Resources
- Preparation
- Teaching Notes

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Lesson 6: Planning a Holiday

Aim

Success Criteria

Resources

Preparation

Teaching Notes

Assessment

Overview

This unit builds on children's existing spreadsheet knowledge and challenges them to apply it in increasingly realistic situations. Through measurement conversions, graphing, weather analysis, budgeting, and planning a holiday, children learn how spreadsheets support real-world decision-making and problem-solving.

Key Learning

- To refresh and extend understanding of formulae and functions from previous learning.
- To use formulae in 2Calculate to convert measurements between different units.
- To use 2Calculate to create and interpret line graphs that show how data changes over time.
- To analyse weather data by using spreadsheets to identify patterns.
- To use spreadsheets to plan and budget for an event.
- To use a spreadsheet to plan a holiday.

Knowledge Organiser and Learning Mat

These resources can be used to support learning across the unit.

- [Knowledge Organiser](#)
- [Learning Mat](#)

Concept Map and Quiz

Use these resources to gauge children's understanding before or after the unit has been taught.

- [Concept Map](#)
- [Quiz](#)

Lesson 1: Revisiting Spreadsheets

Aim

- To refresh and extend understanding of formulae and functions from previous learning.

Success Criteria

- I can use basic formulae correctly.
- I understand that writing formulae manually increases the chance of making a mistake.
- I can apply a range of formulae in spreadsheets to perform calculations efficiently.

Preparation

- Set **Car Washing** as a 2Do.

Please find all lesson resources below.

Resources

- [Slideshow - Lesson 1](#)
- [Car Washing](#)

Lesson 2: Converting Measurements

Aim

- To use formulae in 2Calculate to convert measurements between different units.

Success Criteria

- I can enter data accurately into a spreadsheet.
- I can use multiplication and division to convert between units.
- I can apply formulae to solve conversion problems.

Preparation

- Set **Conversions** as a 2Do.

Please find all lesson resources and additional teaching notes below.

Resources

- [Slideshow - Lesson 2](#)
- [Conversions](#)

Teaching Notes

Please note that at this stage of the learning, the focus of the lesson becomes increasingly reliant on being able to solve mathematical problems. With this in mind, it may be appropriate to provide additional support to those children who particularly struggle with mathematical concepts to aid their learning and understanding within this lesson.

Lesson 3: Creating Line Graphs

Aim

- To use 2Calculate to create and interpret line graphs that show how data changes over time.

Success Criteria

- I understand that a line graph is used to record continuous data.
- I can create a correctly labelled line graph from relevant data.
- I can identify trends by reading a line graph.

Preparation

- Set **Line Graphs** as a 2Do.
- (Optional Extension) For the extension, children are encouraged to either record the results of a previous science experiment or predict the results of an experiment they may complete in the future in a line graph. It may be helpful to have this information to hand for those children who reach the extension.

Please find all lesson resources below.

Resources

- [Slideshow - Lesson 3](#)
- [Line Graphs](#)

Lesson 4: Tracking Weather Patterns

Aim

- To analyse weather data by using spreadsheets to identify patterns.

Success Criteria

- I can record weather data accurately in a spreadsheet.
- I can create graphs or charts to show trends in the data.
- I can make predictions based on data found within data and graphs.

Preparation

- Set **Atlantic Storm** as a 2Do.
- Print enough copies of the **Weather Information Sheet** for the class.

Please find all lesson resources and additional teaching notes below.

Resources

- [Slideshow - Lesson 4](#)
- [Atlantic Storm](#)
- [Weather Information Sheet](#)

Teaching Notes

Please note that slide 8 links to an external YouTube video, created by the Met Office to aid understanding of meteorologists and their job role. We encourage teachers to check all external links before delivering the lesson.

This project requires children to use the information sheet to create their own findings. The information on the answer sheet should lead them to find that **Jamaica** is the country most at risk.

Lesson 5: Planning and Budgeting an Event

Aim

- To use spreadsheets to plan and budget for an event.

Success Criteria

- I can enter income and cost items accurately.
- I can use formulae to calculate totals and profit or loss.
- I can present my budget clearly in a spreadsheet for others to understand.

Preparation

- Set **Summer Fair** as a 2Do.
- Print enough copies of the **Expenses & Income Sheet** for the class.

Please find all lesson resources and additional teaching notes below.

Resources

- [Slideshow - Lesson 5](#)
- [Summer Fair](#)
- [Expenses & Income Sheet](#)

Teaching Notes

Please note that children may have varying answers depending on what aspect of the expenses/income they decide to change. This is as intended, and shows that children have made a conscious decision to amend the spreadsheet for a desired outcome.

Teachers may wish to use peer assessment to ask children to ensure that appropriate answers have been given within the 'Questions' sheet.

Lesson 6: Planning a Holiday

Aim

- To use a spreadsheet to plan a holiday.

Success Criteria

- I can extract relevant information from a brochure and enter this into a spreadsheet.
- I can design a spreadsheet that uses formulae to calculate total costs.
- I can format and present a spreadsheet that clearly shows a plan.

Preparation

- Set **2Calculate** as a 2Do.
- Set **Spreadsheet Scaffold** for those children who may need additional support.
This version of the spreadsheet replicates the one shown within the lesson video, and only requires children to extract information from the travel brochure, with a ready-made spreadsheet already being prepared.
- Print enough copies of the **Purple Holidays Travel Brochure** for the class.

Please find all lesson resources and additional teaching notes below.

Resources

- [Slideshow - Lesson 6](#)
- [2Calculate](#)
- [Spreadsheet Scaffold](#)
- [Purple Holidays Travel Brochure](#)

Teaching Notes

As mentioned above, teachers may benefit from viewing the **Spreadsheet Scaffold** application before the lesson. From here, they can decide whether they would like all children to attempt creating a spreadsheet from a blank file, or whether certain children or groups of children would benefit from using the scaffolded version to complete the task.

Please note that children may have varying answers depending on which holiday they choose from the travel brochure. This is as intended, and shows that children have made a conscious decision to choose certain aspects from the brochure to include in their holiday - as stated in the lesson, there is no right or wrong answer in this lesson, and instead, the focus should be on whether the children were able to build a functioning spreadsheet.

Assessment

The following information is an exemplar of what a child at an expected level would be able to demonstrate when completing this unit with additional exemplars to demonstrate how this would vary for a child with emerging or exceeding achievements.

Emerging

- Children can enter data with support but may confuse the use of cells, rows and columns. They can create simple formulae only when guided, often needing help to correct errors. They can produce basic graphs with adult assistance but may mismatch scales or labels. Children can complete conversion or budgeting activities only with step-by-step prompts. They can describe what a spreadsheet shows, but their explanations are often limited or inaccurate.

Expected

- Children can enter and organise data accurately, using clear headings and sensible formatting. They can create and edit formulae independently to solve problems such as conversions or totals. They can produce accurate line graphs with appropriate axes and titles. Children can analyse information to identify patterns or make decisions, including in weather investigations, school-fair planning or holiday budgeting tasks. Children can explain what makes a spreadsheet effective and suggest simple, practical improvements.

Exceeding

- Children can design well-structured spreadsheets with a logical layout and consistent formatting. They can construct and adapt more complex formulae, checking and correcting errors independently. They can create high-quality graphs that clearly communicate trends. They can justify decisions using spreadsheet evidence in a range of scenarios. Children can evaluate the overall effectiveness of their spreadsheet and propose meaningful refinements that enhance clarity, accuracy and purpose.