

Your First Pie Chart

60 minutes

ICT2: Introduction to other software packages and applications

Outcome M2.U2.3

WHAT THIS LESSON DOES

Learn when a pie chart is suitable for displaying parts of a whole budget. Build a category totals table from item rows, create the pie chart with percentages, arrange slices properly, and save it in your charts workbook.

CURRICULUM OUTCOMES

Outcome	What the specification asks for
M2.U2.3	Demonstrate an ability to edit, enhance and present a variety of information graphically.

WHAT STUDENTS SHOULD BE ABLE TO DO

- Judge when a pie chart is appropriate for parts of a whole
- Build a pie chart from category totals with percentages
- Sort slice order and avoid too many slices or invalid data
- Add a category cost breakdown pie chart to the charts workbook

BEFORE THE BELL

- Review the key concepts table and the item-list roll-up example for whole-class display.
- Students need cloud access to Project_Portfolio and their existing 06_ka2_charts workbook (or 05_project_budget if the charts file is missing).
- Students need spreadsheet access (Excel Online or Google Sheets) and Project_Portfolio open in the browser.
- Confirm each student can open 06_ka2_charts or fall back to 05_project_budget.

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HOW THE LESSON RUNS

5 min	introduction	Introduction
6 min	content	Key concepts
15 min	activity	Step-by-step task
4 min	content	Common issues
20 min	activity	Independent practice
5 min	content	Reflection
5 min	summary	Lesson summary

TEACHING MOVES

- Model the three Ingredients lines adding to 85 before students open the sheet.
- Circulate while students build the category totals table from the item list.
- Model selecting only the two-column summary for the pie chart.
- Lead a short whole-class discussion on when not to use a pie.
- Pause to redraw a five-row summary if too many slices appear.

WHAT TO WATCH FOR

- Selecting the full item list instead of category totals: Build a short 3-6 row table first by grouping and adding.
- Having dozens of tiny slices: Group data into categories before charting.
- Forgetting percentage labels: Add data labels after inserting the pie.
- Typing Aoife's totals without understanding the roll-up: Ask them to show one sum aloud.

DIFFERENTIATION

- Support: Provide a pre-filled item list and blank Category Totals template with the five category names already typed.
- Support: Allow pair work for the step-by-step task.
- Extension: Sort slices largest to smallest and apply colours.