

# MAPPING VOLUNTEERING TO MATHEMATICS: YEAR 1 — YEAR 10 CURRICULUM

Volunteering examples can be included in statistical activities and within mathematical problems of all sorts. Skills in Measurement and Geometry could be applied at any level to a community volunteer project, such as making a community garden.

Year Level	Number and Algebra	Measurement and Geometry	Statistics and Probability	Sample Activity
Year 1		Give and follow directions to familiar locations (ACMMG023).		Select a place where people volunteer, such as a local historical museum.
Year 2			Collect, check and classify data (ACMSP049).	Students collect data about volunteers in the school.
Year 3			Create and interpret simple grid maps to show position and pathways (ACMMG065).	Students imagine they have been involved as volunteers in a tree planting project.  Create a simple grid map that shows the pathway they will need to take to water the trees.
Year 4	Solve problems involving purchases and the calculation of change to the nearest five cents with and without digital technologies (ACMNA080).			Students imagine they are making cupcakes to sell to raise money for the RSPCA.  How much will it cost to purchase the materials?  How much change will they get out of \$25?
Year 5	Create simple financial plans (ACMNA106).			Students imagine they have to run a stall at the local school fete to raise money for the Leukaemia Foundation.  Create a financial plan for the activity.

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Year 6			Interpret secondary data presented in digital media and elsewhere (ACMSP148).	Use data from volunteering research as the basis for the interpretation.
Year 7			Construct and compare a range of data displays including stem-and-leaf plots and dot plots (ACMSP170).	Students talk to other classes and collect data from them about their knowledge of volunteering activities.  Students plot the data.
	Investigate and calculate 'best buys', with and without digital technologies (ACMNA174).			Students use the annual purchase order of a local volunteer organisation to calculate and make recommendations about 'best buys'.
Year 8		Develop the formulas for volumes of rectangular and triangular prisms and prisms in general. Use formulas to solve problems involving volume (ACMMG198).		Students work at a local aged care facility to develop a garden project.  They will calculate the volume of soil needed, as well as angles and areas that will make the best use of the site.
Year 9			Investigate reports of surveys in digital media and elsewhere for information on how data were obtained to estimate population means and medians (ACMSP227).	Use survey reports from volunteering research.
Year 10			Construct and interpret box plots and use them to compare data sets (ACMSP249).	Use data sets related to volunteering.