

Ideas for scaling up and scaling down – Yr 5 into 6 mathematics

Ask each pupil to bring in a recipe from home. Perhaps one that their grandparents have used, or one from a favourite meal that they have at home. If they don't have recipes to hand at home, then they can search for their favourite meals online with the support of their parents/carers.

Ask the pupils for their thoughts on why they have chosen their recipes and why food is important to them.

Then ask them to imagine they were having a party and they were going to cook their recipe for their friends.

They will need to scale up and down to make enough food to feed their friends. For example if a recipe is for 4 people then how do you make enough for 6 or 8?

Their friends will want something to drink so calculate how much concentrated juice they'll need to dilute to make enough drinks for everyone.

Take a look at the resources at <http://nationalstrategies.standards.dcsf.gov.uk/node/47064>

Edujam links:

Design a menu to include scaling up for two different sized groups and load it into their Jam studio.

Create a spreadsheet for the calculations and cut and paste into a document to hand in via their Jam Studio for assessment, e.g. allow scaling up of recipes; x2, x3, etc.

Use the audio commentary to discuss the importance of food to them and their reasons for choosing the recipe and the importance of being able to scale up and down.

Using sound or video, interview their parents about the recipes history in their family.

Related learning objectives

Mathematics

Calculating Yr 5

Find fractions using division (e.g. $\frac{1}{100}$ of 5 kg), and percentages of numbers and quantities (e.g. 10%, 5% and 15% of £80).

Measuring Yr 6

Read and interpret scales on a range of measuring instruments, recognising that the measurement made is approximate and recording results to a required degree of accuracy; compare readings on different scales, for example when using different instruments.

Literacy

Understanding and interpreting texts

Yr 5 Compare different types of narrative and information texts and identify how they are structured.

Yr 6 Explore how word meanings change when used in different contexts.