

## Maths Challenges Summer Term 2019-2020

### Week 7

<b>Focus</b>	<b>Challenge 1</b>	<b>Challenge 2</b>	<b>Challenge 3</b>
<p><b>Measure (mass) and real life problems</b></p>	<ul style="list-style-type: none"> <li>• Investigate measuring equipment in your home. What equipment do you use to measure liquids? Weigh a solid? Measure a length? What units do you use for each?</li> <li>• Use kitchen scales to weigh out 100g of different items (food or non food). Compare 100g of different items-eg 100g of tissue paper takes up more space in a bag than 100g rice</li> <li>• Weigh a range of kitchen items in grams. Make sets of items that are more or less than 100g</li> <li>• Count in multiples of 100g to 1000g/1kg and beyond (eg 1kg 100g, 1kg 200g...)</li> <li>• Create 3 'mystery parcels' by putting household items in empty boxes then sealing them. Ask family members to put the items in order of perceived weight. Then check by weighing the parcels and re-order as needed</li> </ul>	<ul style="list-style-type: none"> <li>• Look at labels from different food packaging and identify and record the mass in grams</li> <li>• Use scales to weigh 2 kitchen items. Calculate the 'difference' (by subtracting smallest from largest figure using a calculator)</li> <li>• Recall facts about mass, ie 1000g=1kg/ 500g=0.5kg</li> <li>• Count in multiples of 100g to 1000g/ 1kg and beyond (eg 1.1kg, 1.2kg...)</li> <li>• Estimate the weight of 3 'mystery parcels' (by putting household items in empty boxes then sealing them) and then check using a weighing scale. Calculate the 'difference' between your estimate and the actual parcel weight</li> <li>• Find a recipe and 'double' the quantity of ingredients by 'multiplying by 2' using a calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Measure a range of kitchen items using a weighing scale and record as decimal totals (eg 2500g =2.5kg/ 250g=0.25kg)</li> <li>• Recall facts about mass, ie 250g=0.25kg, 100g=0.1kg</li> <li>• Count forward and back in different multiples, starting at any given point (eg 75.5kg, 75.75kg, 76.0kg.../ 925g, 900g, 875g...)</li> <li>• Ask family members to estimate the weight of 5 (or more) items found in your home and then measure accurately using a scale. Work out which estimate is closest</li> <li>• Work out ingredients needed for 8 people or 2 people by doubling or halving quantities in a recipe for 4 people-using a calculator</li> <li>• Use a conversion table/on-line app to convert imperial and metric measures (eg 3.5oz=100g)</li> </ul>