

Beauchamps has worked with Bromfords to create a Maths transition project that will help prepare students for their studies at secondary school. If you attend one of the Wickford schools, you may be doing this in school, but if not, you can look and work through this at home. Look carefully at the activities and resources provided and work through them at your own pace. The skills in this project are designed to build upon what you have learn at primary school to help you prepare for Maths at secondary school.

### Maths Activity Guide

	Activity	Resources	Maths learning
Session 1	<u>Introduction to task</u> <ul style="list-style-type: none"> <li>• Look at session 1 PowerPoint</li> <li>• Create a team name</li> <li>• Recognising 2D shapes and symmetry within logos</li> <li>• Create a team logo</li> </ul>	<ul style="list-style-type: none"> <li>• PowerPoint</li> <li>• Example work</li> <li>• Creating the team sheet</li> </ul>	<ul style="list-style-type: none"> <li>• 2D shapes</li> <li>• Symmetry</li> </ul>
Session 2	<u>Completing data</u> <ul style="list-style-type: none"> <li>• Look at session 2 PowerPoint</li> <li>• Match the correct diagram to its title</li> <li>• Use the footballers' data and goalkeeper pictograms to fill in the incomplete Top Trump Cards – you can check your work with the completed ones</li> </ul>	<ul style="list-style-type: none"> <li>• PowerPoint</li> <li>• Example work</li> <li>• Incomplete Top Trumps Cards</li> <li>• Complete Top Trumps Cards</li> <li>• Footballers' data</li> <li>• Goalkeeper pictograms</li> </ul>	<ul style="list-style-type: none"> <li>• Interpreting data</li> <li>• Pictograms</li> <li>• Line graphs</li> <li>• Pie charts</li> <li>• Bar charts</li> </ul>
Session 3	<u>Choosing Players</u> <ul style="list-style-type: none"> <li>• Look at session 3 PowerPoint</li> <li>• Solve the number problem</li> <li>• Choose your 9 players using the instructions provided in the PowerPoint</li> <li>• Explain why you have chosen each member of the team</li> </ul>	<ul style="list-style-type: none"> <li>• PowerPoint</li> <li>• Example work</li> <li>• Football pitch template</li> <li>• Your completed Top Trump Cards</li> </ul>	<ul style="list-style-type: none"> <li>• Mathematical reasoning</li> <li>• Working with numbers up to 7 digits.</li> <li>• Adding &amp; subtracting decimals for budget</li> <li>• Solving problems</li> <li>• Justifying answers</li> </ul>
Session 4	<u>Finding Averages</u> <ul style="list-style-type: none"> <li>• Look at session 4 PowerPoint</li> <li>• Mean, mode, median and range activities – there is a help sheet in the resources if you are unsure</li> </ul>	<ul style="list-style-type: none"> <li>• PowerPoint</li> <li>• Example work</li> <li>• How to find the mean, mode, median and range</li> </ul>	<ul style="list-style-type: none"> <li>• Averages</li> <li>• Mean</li> <li>• Median</li> <li>• Mode</li> </ul>

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	<ul style="list-style-type: none"> <li>Calculate the averages for the players in your team using the data grids</li> </ul>	<ul style="list-style-type: none"> <li>Mean, mode, median and range match up cards</li> <li>Data grids</li> <li>Your completed Top Trump Cards</li> </ul>	<ul style="list-style-type: none"> <li>Range</li> </ul>
Session 5	<u>Justifying choices</u> <ul style="list-style-type: none"> <li>Look at session 5 PowerPoint</li> <li>Recap averages activity</li> <li>Complete the comparison cards for each player in your team.</li> </ul>	<ul style="list-style-type: none"> <li>PowerPoint</li> <li>Example work</li> <li>Comparison cards</li> <li>Your completed Top Trump Cards</li> </ul>	<ul style="list-style-type: none"> <li>Reasoning</li> <li>Developing an argument</li> <li>Justification</li> <li>Using mathematical language</li> </ul>
Session 6	<u>Tournament</u> <ul style="list-style-type: none"> <li>Look at session 6 PowerPoint</li> <li>Play rock, paper, scissors with members of your family as they represent opposing football teams</li> <li>Record each win, loss and draw in your tally chart</li> <li>Convert your tally chart into algebra</li> </ul>	<ul style="list-style-type: none"> <li>PowerPoint</li> <li>Example work</li> <li>Tally chart results sheet</li> </ul>	<ul style="list-style-type: none"> <li>Creating a tally chart</li> <li>Algebraic expressions</li> <li>Collecting like terms</li> <li>Substitution</li> </ul>
Session 7	<u>Presenting Team information as graphs</u> <ul style="list-style-type: none"> <li>Look at session 7 PowerPoint</li> <li>Name the mathematical equipment</li> <li>Identify what is missing from the bar charts</li> <li>Draw your own bar chart to represent the number of yellow cards each player in your team have received</li> <li>EXTENSION: Create a pie chart for your team's results from the tournament</li> </ul>	<ul style="list-style-type: none"> <li>PowerPoint</li> <li>Example work</li> <li>Pie chart outline</li> </ul>	<ul style="list-style-type: none"> <li>Displaying data</li> <li>Drawing a bar chart</li> <li>Drawing pie chart</li> <li>Using a protractor</li> </ul>