

## Indoor Maths Challenges for KS2 children

How many challenges can you complete? Tick them off as you go.

<p>Measure objects and rooms in your home using a tape measure or ruler. Can you calculate the perimeter of your bedroom? Investigate other rooms. What have you found out?</p>  <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Make your own 'top trump' cards. Choose a theme you are interested in (e.g. – football players, dinosaurs, capital cities, characters in your favourite TV programme). Think of five categories and include scores for each category on each card. Play with a family member.</p> <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Write directions from your bedroom to the front door using positional language (e.g. – walk forward 6 steps and turn 45° clockwise....). Ask a family member to try out your instructions. Do they work? Try other routes around your home.</p> <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Make your own board game to play with your family. You could make the board with part of a cardboard box or cereal packet.</p>  <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Make up a secret code with a key (e.g. – A = 1, B = 2 etc. or draw a symbol for each letter). Write a message for a family member or to send to a friend. Don't forget to give them a copy of the key!</p> <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>
<p>Use Lego/Duplo bricks, building blocks or empty boxes etc. Build the tallest tower possible. Measure your tower using a ruler/measuring tape. Can you build a tower as tall as you or even taller? Set yourself some other similar challenges.</p> <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Use an unopened package of food which has a label telling you how much it weighs. Using your package to help you with your estimates, try to find as many items as you can which weigh more, less or the same. Arrange your items in three groups.</p> <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Help an adult to do some baking. Measure the ingredients carefully and enjoy the results!</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Design your own theme park or zoo. Draw a map showing a bird's eye view and include a symbol for each feature. Think about how big each enclosure or ride will be and mark the measurements on your map.</p>  <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>	<p>Use a piece of rope, string or ribbon. What 2D shapes can you make on the floor? Draw each shape you make and mark any lines of symmetry.</p> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; align-items: center;">    </div> <div style="display: flex; flex-wrap: wrap; justify-content: space-around; align-items: center; margin-top: 10px;">   </div> <div style="text-align: right; margin-top: 10px;"><input type="checkbox"/></div>

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<p>Design some 'minute challenges' and try them out. Can you beat your score? Here are some ideas to get you started. Set a timer to measure a minute and record your scores:</p> <p>How many star jumps can you do?</p> <p>How many words can you read?</p> <p>How many words can you write?</p>  <input data-bbox="490 810 566 882" type="checkbox"/>	<p>Keep a weather diary. Design a key and use symbols to record the weather each morning and afternoon. Find the temperature from the TV weather or the internet. What is the difference in temperature between the warmest and coldest day? What other mathematical questions could you ask and answer?</p>  <input data-bbox="871 810 943 882" type="checkbox"/>	<p>Go on a 2D shape hunt around your home. You could record your findings on a tally chart or draw or photograph each shape. Which is the most common shape? Can you find any irregular shapes?</p>  <input data-bbox="1245 810 1319 882" type="checkbox"/>	<p>Write a story book with a maths theme for a younger child. Include maths ideas you have learnt in the past and colourful illustrations to draw the reader in. If you have a younger brother or sister, share your book with them.</p> <input data-bbox="1610 810 1682 882" type="checkbox"/>	<p>Draw a plan of your home from above. If there is more than one floor, draw these separately. Use symbols to show where objects are and record these on a key. Include measurements if you can.</p>  <input data-bbox="1973 810 2047 882" type="checkbox"/>
<p>Go on a 3D shape hunt around your home. You could record your findings on a tally chart or draw or photograph each shape. Which is the most common shape? Are there any shapes you can't find?</p>  <input data-bbox="490 1281 566 1351" type="checkbox"/>	<p>Look around your kitchen. What maths can you see? Draw or photograph each item you spot. Now try other rooms. Which room contains the most maths?</p> <input data-bbox="871 1281 943 1351" type="checkbox"/>	<p>Make up your own game using playing cards, dominoes or dice. Teach a family member how to play.</p>  <input data-bbox="1245 1281 1319 1351" type="checkbox"/>	<p>Go on a number hunt around your home. Record each number you spot. What is the highest number you have found? What is the lowest?</p> <input data-bbox="1610 1281 1682 1351" type="checkbox"/>	<p>Using one piece of A4 paper, make the longest possible paper chain. When it is finished, lay it out and measure it with a tape measure or ruler. If you did it again, would you change your method? How?</p>  <input data-bbox="1973 1281 2047 1351" type="checkbox"/>