







Y5/6 Maths Outdoor Challenges

<p>Relay Trim Trail/Obstacle Course Times</p>  <p>You need: Trim trail or obstacle course, timers, pen and paper, playground/field</p> <p>Estimate how long it will take each of your team to get round the trail as a relay.</p> <p>Does it matter who goes first/last?</p> <p>Work together as a team to find the best team combination to get the fastest time.</p> <p>What if you started the trail at the end and came through back to the start. Would it make a difference?</p> <p>If you don't have a trim trail then make up your own obstacle course you can use.</p>	<p>Grassy Fractions</p>  <p>You need: pen and paper, squared paper to make grids, measuring equipment for , field or grass areas</p> <p>First make yourself a 10 x 10cm 100 square.</p> <p>Mark out a grid on the grass that is 50cm x 50cm. Mark the grid into smaller squares using your 10 x 10 cm 100 square.</p> <p>Work as a team to investigate which square in your grid has:</p> <ul style="list-style-type: none"> the highest fraction of grass the highest fraction of weed the highest fraction of flowers <p>Mark your findings on your 100 grid and then compare results with a different group. Estimate how many blades of grass are within a 1cm square and use this to estimate how many in your whole grid. How close to 1 million are you?</p>	<p>Playground Areas.</p>  <p>You need: pen and paper, newspaper, measuring equipment for length, playground/field</p> <p>Make a square metre from newspaper.</p> <p>Choose 6 different spaces outdoors. Use your newspaper square metre to estimate the area of each space.</p> <p>Check the correct area by using measuring equipment.</p> <p>How close were your estimates?</p> <p>Could you think of a something better to use to make your estimates?</p>
<p>Rainy Day Puddles</p>  <p>You need: pen and paper, measuring equipment, graph paper, rainy day!</p> <p>Next time it rains go outside and find 3 different puddles. One in the sun, one in the shade and one in a mix of sun and shade.</p> <p>Measure the following:</p> <ul style="list-style-type: none"> Width at the widest part The outside edge. Estimate the area of the puddle. <p>Every half an hour measure the same measurements. Once you have 4/5 measures over the day then create line graphs for your puddles. Compare with other groups.</p>	<p>Shadowy Spaces</p>  <p>You need: pen and paper, measuring equipment, graph paper, sunny day!</p> <p>On a sunny day draw around different people's shadows.</p> <p>How are you going to find the area of the shadow? Compare with others. Who has the most efficient strategy?</p> <p>Test out your different strategies.</p> <p>Is it easier or harder depending on the height/length of the shadow?</p> <p>Look at the angles within your shadows can you spot any acute, reflex, obtuse, right angles.</p>	<p>Leafy Sort</p>  <p>You need: pen and paper, collection pots, leaves, book about different types of leaves</p> <p>As a group collect 100 leaves. Collect as many different types of leaf as you can.</p> <p>Agree how you are going to sort the leaves based on their shape.</p> <p>Describe your set of leaves using fractions and %s. Can you simplify any of the fractions?</p> <p>How does your set of leaves compare to another groups?</p>