

# PRIMARY SPORTS GIANTS OUTDOOR LEARNING: MATHS



TOPIC PROGRESSION	OUTLINE OF LESSON	KEY FOCUS POINTS
Reception	To explore collecting different resources with a focus on counting and sorting.	E.g: <ul style="list-style-type: none"> <li>● Count materials into bundles</li> <li>● Identify and collect shorter and longer sticks</li> <li>● Sorting materials</li> <li>● Getting into groups of small numbers e.g. 3s/ 4s/ 5s running around in between</li> <li>● Building towers- counting objects in the tower</li> </ul>
Year 1	To develop basic adding and subtracting skills using natural materials.	E.g: <ul style="list-style-type: none"> <li>● Creating stick bundles to add together</li> <li>● Creating rock bundles to subtract</li> <li>● Using leaves or sticks to draw out a number line 1-20</li> <li>● Number bubbles- ask a question e.g. 2+2, pupils then have to group together in the correct answer = group of 4</li> </ul>
Year 2	To explore shapes and lines of symmetry.	E.g: <ul style="list-style-type: none"> <li>● 1, 2D, 3D ND 4D shape building using natural resources e.g. stick cuboid</li> <li>● Arranging materials into basic 2D shapes</li> </ul>

FOREST SCHOOL & OUTDOOR LEARNING | TEACHER DEVELOPMENT | SCHOOL REWARD EVENTS | BIRTHDAY PARTIES | SPORTS COACHING | BALANCE BIKE RACING | AFTER SCHOOL CLUBS | NERF BATTLES | ADVENTUROUS HOLIDAY CAMPS

[WWW.PRIMARYSPORTSGIANTS.CO.UK](http://WWW.PRIMARYSPORTSGIANTS.CO.UK)

# PRIMARY SPORTS GIANTS OUTDOOR LEARNING: MATHS



		<ul style="list-style-type: none"> <li>• Creating symmetry e.g. arranging leaves into different patterns and identify the lines of symmetry</li> </ul>
Year 3	To develop multiplication and division.	<p>E.g:</p> <ul style="list-style-type: none"> <li>• Write numbers on cones and scatter them randomly- in pairs each pupil picks a cone at random. They then either multiple/ divide the numbers together to work out the answer</li> <li>• Shuttle division- number cones, shout out a division question, pupils have to run and find the correct answered cone</li> <li>• Circle count- in small groups stand in a circle and number off timetables in a clockwise direction- challenge the children to go as quickly as possible e.g. 2 times table/ then 3 times table.</li> <li>• Stick bundle- multiplication or division. Pupils pair up and times their stick bundles together to work out the answer. Then move around to another partner ect.</li> <li>• Finger speed multiplication/ division on the count of three they each put forward their choice of fingers which they times or divide with their partners choice number of fingers. Whoever says the answer first wins. Keeping moving around challenging different players in different areas.</li> </ul>
Year 4	To explore perimeters and areas.	<p>E.g:</p> <ul style="list-style-type: none"> <li>• Create treasure maps with instructions e.g. walk 15 steps from the gate along the bottom of the field then turn right. Create treasure or an answer for them to find at the end.</li> <li>• Use playground lines- pupils run around staying on the lines,</li> </ul>

FOREST SCHOOL & OUTDOOR LEARNING | TEACHER DEVELOPMENT | SCHOOL REWARD EVENTS | BIRTHDAY PARTIES | SPORTS COACHING | BALANCE BIKE RACING | AFTER SCHOOL CLUBS | NERF BATTLES | ADVENTUROUS HOLIDAY CAMPS

[WWW.PRIMARYSPORTSGIANTS.CO.UK](http://WWW.PRIMARYSPORTSGIANTS.CO.UK)

# PRIMARY SPORTS GIANTS OUTDOOR LEARNING: MATHS



		<p>when the teacher shouts area pupils have to move across the area to the other side of the perimeter without getting tagged. Swap around- pupils run around in the area, then shout perimeter. They then have to run to the perimeter without getting tagged.</p> <ul style="list-style-type: none"> <li>• Draw maps with a focus on marking the perimeter first and then adding landmarks to scale inside the perimeter</li> </ul>
Year 5	To explore decimal places with rounding numbers.	<p>E.g:</p> <ul style="list-style-type: none"> <li>• Sit to stand game- sit down if the number is rounded down, stand up if the number is rounded up e.g. 4.96 = all should stand up. Give challenges to those who get the answers wrong x5 star jumps/ get the pupils to ask each other questions.</li> <li>• Use of stop watches to measure time of running/skipping/ hopping a measured 'set' distance. Rank scores in order/ progress to ranking alongside other groups scores.</li> <li>• Greater than or less than game- write out random decimal number cards and hide them around a set area. Pupils have to find a card, they then have to find a partner and work out if they are greater than or less than to compare decimals. Keep getting them to swap partners. Develop further by changes of cards/ ranking all the cards.</li> </ul>
Year 6	To explore and develop fractions	<p>E.g:</p> <ul style="list-style-type: none"> <li>• Build a fraction- collect x4 sticks to create a rectangle box. Then collect a further 10 sticks that are the same length as the width</li> </ul>

FOREST SCHOOL & OUTDOOR LEARNING | TEACHER DEVELOPMENT | SCHOOL REWARD EVENTS | BIRTHDAY PARTIES | SPORTS COACHING | BALANCE BIKE RACING | AFTER SCHOOL CLUBS | NERF BATTLES | ADVENTUROUS HOLIDAY CAMPS

[WWW.PRIMARYSPORTSGIANTS.CO.UK](http://WWW.PRIMARYSPORTSGIANTS.CO.UK)

# PRIMARY SPORTS GIANTS OUTDOOR LEARNING: MATHS



		<p>of the rectangle and a handful of leaves/ stones or any other material. Pupils then have to build up a fraction e.g. <math>\frac{3}{4}</math> =split the rectangle into 4 pieces and fill 3 with leaves to identify the <math>\frac{3}{4}</math>.</p> <ul style="list-style-type: none"><li>• Number families- print out different number cards all in relation to each other. Scatter the cards randomly around the playground, pupils then have to solve which cards match together in their 'family' group e.g. 0.75/ <math>\frac{3}{4}</math>/ 75% / 75/100</li><li>• Orienteering game- in pairs use mental maths skills to add up the numbers, whilst getting the code word</li></ul>
--	--	--

## USEFUL LINKS:

<https://primecoachingsport.wordpress.com/2018/11/21/teach-math-through-sport-division-multiplication/>

<https://www.pescholar.com/wp-content/uploads/2020/05/PE-Scholar-Daily-Challenge-Cards-Maths-and-PE-4.pdf>

<https://www.powerupfitness.net/post/10-ways-to-add-math-to-physical-activity>

FOREST SCHOOL & OUTDOOR LEARNING | TEACHER DEVELOPMENT | SCHOOL REWARD EVENTS | BIRTHDAY PARTIES |  
SPORTS COACHING | BALANCE BIKE RACING | AFTER SCHOOL CLUBS | NERF BATTLES | ADVENTUROUS HOLIDAY CAMPS

**WWW.PRIMARYSPORTSGIANTS.CO.UK**