Glasgow City Council

Glasgow Outdoors: Glasgow Counts







GIC Leaders of Early Learning





Glasgow Outdoors: Glasgow Counts







Early Level

Aims

- To reinforce the benefits of outdoor play.
- To introduce the Glasgow Outdoors resource for Numeracy and how to use it.
- To explore suggested experiences and interactions for taking numeracy learning outdoors using the Glasgow Counts Framework.







Benefits of taking learning outdoors:

- Rich stimulus for creativity, enquiry and problem solving
- Improved mental, emotional and physical health
- Development of language and communication skills
- Application of literacy and numeracy in meaningful contexts
- Instils a connectedness with, and appreciation of nature





Coronavirus (COVID-19): guidance on reopening early learning and childcare services

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on reopening early learning and									
childcare services									







Other outdoor policy and guidance











curriculum for excellence through outdoor learning













Glasgow Outdoors: Glasgow Counts







Early Level

Locating the resource...

- Twitter: @GlasgowLEL
- Blog: Google Leaders of Early Learning
 <u>https://blogs.glowscotland.org.uk/gc/gccleadersofearlylearning/</u>









Leaders of Early Learning



WELCOME

GLASGOW COUNTS IN OUR

PLAYROOMS

LITERACY FOR ALL IN OUR
PLAYROOMS

GLASGOW OUTDOORS

GLASGOW HOME LEARNING

PROMOTING ALTERNATIVE THINKING STRATEGIES

REALISING THE AMBITION

LEARNING FOR SUSTAINABILITY

NURTURE

DR SUE GIFFORD

DLCS FRAMEWORK

CREATE EARLY LEVEL FRAMEWORK

WELCOME

Welcome to the Leaders of Early Learning Blog

On our blog you will find all the latest professional learning for <u>Glasgow Counts in our Playrooms</u> and <u>Literacy for All in our</u> <u>Playrooms</u>. You will also find the professional learning we have devised to support <u>Learning for Sustainability</u> and Promoting Alternative Thinking Strategies (<u>PATHS</u>). This is also a place to access current Early Learning and Childcare, including <u>Realising the</u> <u>Ambition: Being Me</u>.

Click here for a summary of Education Scotland – key information, policy, resources, and exemplification relating to early learning and childcare (ELC).

Thank you for visiting

FIND US



We are located within Royston Primary School, please use the side entrance on Gadshill Street.

c/o Royston Primary School 102 Royston Road Glasgow G21 2NU 0141 287 9751









Leaders of Early Learning



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Welcome to Glasgow Outdoors, please clicker the link below to

Glasgow Outdoors - Glasgow Counts

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Navigating the resource...



















growing goodcitizen in glasgow	G	lasgow's Le	arning for Sustainability	Glasgow Glasgow Co	v's Improve unts. Taking	ment Challe Learning Ou	nge - Lead tdoors – N	ers of Early Le umeracy Early	arning Tracker 1	
-43	▲ — —			Navigate to home slide		Early Level Tracker 1				
	Estimation & Rounding 고		Knows they can check estimates by counting within 0-10 <u>E1.1-3 E1.2-3 E1.3-3</u> Say short forward and backward number			Can apply subitising skills to estimate the number of items in a set <u>E2.1-1</u> Uses ordinal numbers in real life contexts		Uses the language of estimation, including more than, less than, fewer than and the same E3.1-3 E3.2-3 E3.3-3 Recalls the number sequence forwards		
		No. wo seq.	word sequences within 0-10 No1.1-1			e.g. I am first/second/third in the line' No2.1-2 No2.2-2			and backwards within 0-10 <u>No3.1-2 No3.2-2</u>	
Organiser	umber Structure	Numerals	Recognise numerals e points to the numbe from 0-10 <u>N1.1-2 N1.2-2</u>	dentify (name) can respond to is that numbe <u>N2.1-5</u> N2.2-5	numerals e.g. question 'what r?' from 0-10 N2.3-5 N2.4-5 5-5	Explains zero represented as 0 <u>N3.1-2 N3.2-2</u>	Orders nur and b wit <u>N4.1</u>	nerals forwards backwards hin 0-10 - <mark>2 N4.2-2</mark>	Identifies number befor numbers in a sequence wit use the language before, <u>N5.1-2 N</u>	e, after and missing hin 0-10; beginning to after and in-between 5.2-2
Click the link to take you to the	ig, Quan ities & N	Subitisng	Identifies 'now many?' in regular dot patterns e.g. dot arrangement/on fingers/five frames/10 frames/dice without counting up to 6 <u>\$1.1-3 \$1.2-3 \$1.3-3</u>		tterns e.g. dot frames/dice c	Identifies 'how many?' in irregular dot patterns e.g. dot arrangement/on fingers/five frames/10 frames/dice without counting up to 6 <u>\$2.1-2 \$2.2-2</u>		Represents amounts in different arrangements e.g.dot arrangement/on fingers/five frames/ 10 frames/dice without counting up to 6 <u>\$3.1-4 \$3.2-4 \$3.3-4 \$3.4-4</u>		
for that box within the organiser	Awareness of Number – Countin	Counting	When counting objects understands the order in which we say the numbers is always the same (stable order) <u>C1.1-3 C1.2-3 C1.3-3</u> Touch counts one item when each number word is said (1- to-1 correspondence) <u>C2.1-3 C2.2-3 C2.3-3</u>		ne item when ⁿ vord is said (1- pondence) 2-3 <u>C2.3-3</u>	When counting objects understands that the number name of the last object counted is the name given to the total number of objects in a set (cardinal principle) C3.1-3 C3.2-3 C3.3-3		counting objects rstands that the r of objects is not ted by position er irrelevance) 4.1-2 C4.2-2	Counts objects in a set recognising that the appearance of the objects has no effect on the overall total within 0-10 (conservation) <u>C5.1-2 C5.2-2</u>	Counts anything e.g. objects at a distance/in a book/sounds/claps within 0-10 (abstract principle) <u>C6.1-3 C6.2-3 C6.3-3</u>
	Explains that zero means there is none of a partic <u>PV1.1-3 PV1.2-3 PV1.3-3</u>				ticular quantity Partitions quantities to 10 int not affect the to PV2		o 2 or more parts and recognises that this does tal e.g. 6 as 3 and 3/2 and 2 and 2 2.1-3 PV2.2-3 PV2.3-3			
	Addition and Subtraction		Sorts & classifies objects using quantity as an attribute e.g. sets of 1, 2 within 0-10 AS1.1-3 AS1.2-3 AS1.3-3	Compares 2 sets to decide which has the fewest/most within 0-10 <u>AS2.1-2 AS2.2-2</u>	Finds the total 1,2 or 3 is added existing amoun number line or chart (augment <u>AS3.1-3 AS3</u> <u>AS3.3-3</u>	when d to an Finds th t e.g. a 2 sets are height within 0-1 :ation) <u>AS4.3</u>	e total when added together 0 (aggregation) - <u>2 AS4.2-2</u>	Finds out how mar are left when 1 or are taken away within 0-10 AS5.1-3 AS5.2-3 AS5 <u>3</u>	2 Compares to find the difference between sets as a quantity within 	Beginning to count on and back in ones to add and subtract with objects or number line within 0-10 <u>AS7.1-3 AS7.2-3</u> <u>AS7.3-3</u>
	Multiplication and Division Shares out a group of items into 2 equal set: Groups objects into matching or natural sets of 2 e <u>M&D1.1-3 M&D1.2-3 M&D1.3-</u>					within 0-10. Begin to identify halves and <u>M&D2.</u>		doubles using concrete materials within 0-10 <u>1-3 M&D2.2-3 M&D2.3-3</u>		
	Fractions, Decimals and % Identifies wholes and halves in a social context and use appropriate language e.g. 'I have eaten half of my banar FD%1.1-3 FD%1.2-3 FD%1.3-3				 Splits a whole into smaller parts and explains that equal parts are the same' <u>FD%2.1-2 FD%2.2-2</u> 			Understands that a whole can be shared equally and unequally FD%3.1-2 FD%3.2-2		
								Click ar	row for more	

information on the next slide

Next slide

Glasgow's Improvement Challenge - Leaders of Early Learning

Glasgow Counts. Taking Learning Outdoors – Numeracy Early Tracker 1

goodcitizens in glasgow

Glasgow's Learning for Sustainability



Next slide



Let's have a closer look...













Glasgow's Learning for Sustainability

Glasgow's Improvement Challenge - Leaders of Early Learning

Glasgow Counts. Taking Learning Outdoors – Numeracy Early Tracker 1



Shares out a group of items into 2 equal sets within 0-10. **Multiplication** Begin to identify halves and doubles using concrete materials within 0-10 Groups objects into matching or natural sets of 2 e.g. shoes within 0-10 and Division **Language:** share(s), group(s), pairs, twos, **Doubling Mirror** M&D 2.2-3 threes, fours etc. odd, even, array Once children have mastered the cardinal principle, and know that the last item counted gives the number in any set, then they can begin to engage in division as a concrete activity by exploring sharing and grouping. Children can observe halves and doubles naturally as part Resources: of the sharing and grouping process. One Mirror per child Loose parts e.g. leaves, pinecones, Aim: To investigate what happens to the number of objects when placed in front of a mirror. shells, stones, pegs etc Suggested Experience and Interactions: Place items in baskets/bowls and mirrors in front of the children. Explain to the children that you are going investigate what happens to the number of objects when you put them in front of the mirror. Allow the children to explore and discover what happens to the number of items if they ٠ Other concepts explored: put it in front of a mirror. Principles of counting – stable Explain that the number is doubling (there are twice as many). order, 1-1 correspondence, cardinality Ask children, abstract "How many objects do you have?" Symmetry "How many object can you see? "Double is_?" "I wonder how many double is?" Encourage children to investigate and predict what will happen when more than one item is placed in front of the mirror. "I wonder how many items we will see if we use a mirror" "How many things do you have altogether?" "I wonder what will happen if we put 3 pegs in front of the mirror"



Glasgow's Learning for Sustainability

Glasgow's Improvement Challenge - Leaders of Early Learning

Glasgow Counts. Taking Learning Outdoors – Numeracy Early Tracker 1



Subitising Identifies 'how many?' in regular dot patterns Identifies 'how many?' in irregular dot patterns e.g. Represents amounts in different arrangements e.g. dot arrangement/on fingers/five frames/10 dot arrangement/on fingers/five frames/10 frames/dice e.g.dot arrangement/on fingers/five frames/ frames/dice without counting up to 6 10 frames/dice without counting up to 6 without counting up to 6 **Subitising Fun** Language: How many, dots, patterns, S1.1-3 objects, dice, domino, five frame, ten Subitising is an essential part of developing number sense. By looking at a group of items, children can start to frame, array, tell me what you see develop an understanding of how a number is made up. There are two types of subitising, perceptual subitising, where you can instantly recognise the number of objects or items in front of you without counting, and **Resources:** conceptual subitising, which allows you to use recognisable patterns to help you get that same instant recognition without having to count. A large dice A range of natural materials e.g. Aim: To identify how many dots there are by looking at regular dot patterns on dice using perceptual stones, sticks, leaves etc. subitising. Chalk **Suggested Experiences and Interactions:** Subitise Race - The aim of the game is to be the first to reach the target. Create a start and finish line using chalk, sticks, stones etc. Alternatively, invite the children to draw one. Using a large dice, encourage each child to take a turn to roll the die. The group of children use their subitising skills Other concepts explored: to identify the amount shown. Principles of counting – stable order, "How many dots can you see?" "Let's count together and check." 1-1 correspondences, Each child then jumps the quantity they rolled towards the finish line. The first to the finish line is cardinal, abstract the winner. What's the time Mr Wolf? - This game is based on the traditional version of 'What's the time Mr Wolf?' with the difference being the 'wolf' shows a dice instead of shouting out a number. The group of children identify the steps to be taken by using their subitising skills, reading the amount from the dot arrangement on the dice. "Tell me what you see" "Could you show me that number using your fingers?" The children proceed to take the amount of steps until the wolf announces, 'dinner time'. Subitising Scavenger Hunt Race - Using a selection of outdoor materials e.g. stones, sticks, leaves etc. demonstrate rolling the die and gathering objects as an example. Children take turns to pick an object e.g. a leaf, and rolls the dice: "What did you roll?" "How many have we to find?" Once the child identifies the number all the children race to find the required amount of the item. On return children can lay out their items or even place them on the dots of the dice to check

they have the correct amount. The winner is the first to return with the correct total.

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• Questions







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DLCS FRAMEWORK		Glasgow Counts in our Playrooms – Learning at Home – up-	G21 014
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		Literacy for ALL – Learning at Home – Reading – updated	T
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		Literacy for ALL – Learning at Home – Writing – updated	
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	<u>The S</u>	Same but Different Too by Karl Newson and Kate Hindley	
	<u>The l</u>	ion Inside by Rachel Bright and Jim Field	









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Thank you for tuning in







