

Maths Week Scotland

First Level

Welcome to Maths Week Scotland!

Maths Week Scotland is taking place 27 September – 3 October 2021 and you can take part through our online events and resources, containing a range of activities and ideas.

This pack contains ways to celebrate and enjoy Maths Week Scotland with your first level children, either at home or school. Online versions are available at www.mathsweek.scot/activities.

We would love to see what you get up to. Share to your celebrations with us on [Twitter @MathsWeekScot](https://twitter.com/MathsWeekScot) and [#MathsWeekScot](https://twitter.com/MathsWeekScot).

ACTIVITY IDEAS

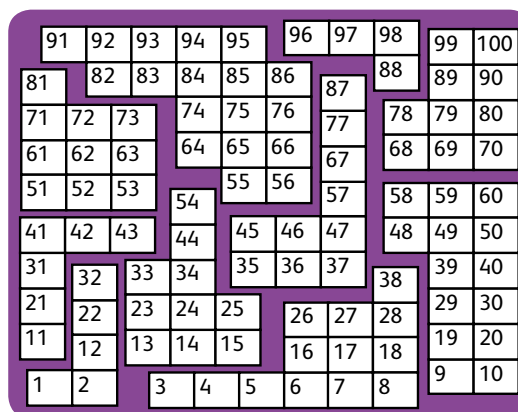
Quick Fire Activities

Digit Count How many times does the digit 6 appear in numbers up to 100? Estimate first and then write them all out to see if you were correct. Try again with another digit.

Higher or Lower Roll a dice and guess whether the next number rolled will be higher or lower. Win a point if you're correct. You could try with more than one dice and add or multiply the numbers together.

100 Number Jigsaw

Different countries and cultures around the world have created their own puzzles and games over time.



Create your own number puzzle by providing each learner with a 100 number square and a pair of scissors. They should each cut the square into a set of 10 random pieces by cutting along the lines. Then ask them to swap their sets and race to see who can reassemble the 100 square first. It can be cut up in any shape or size as long as there are 10 pieces.

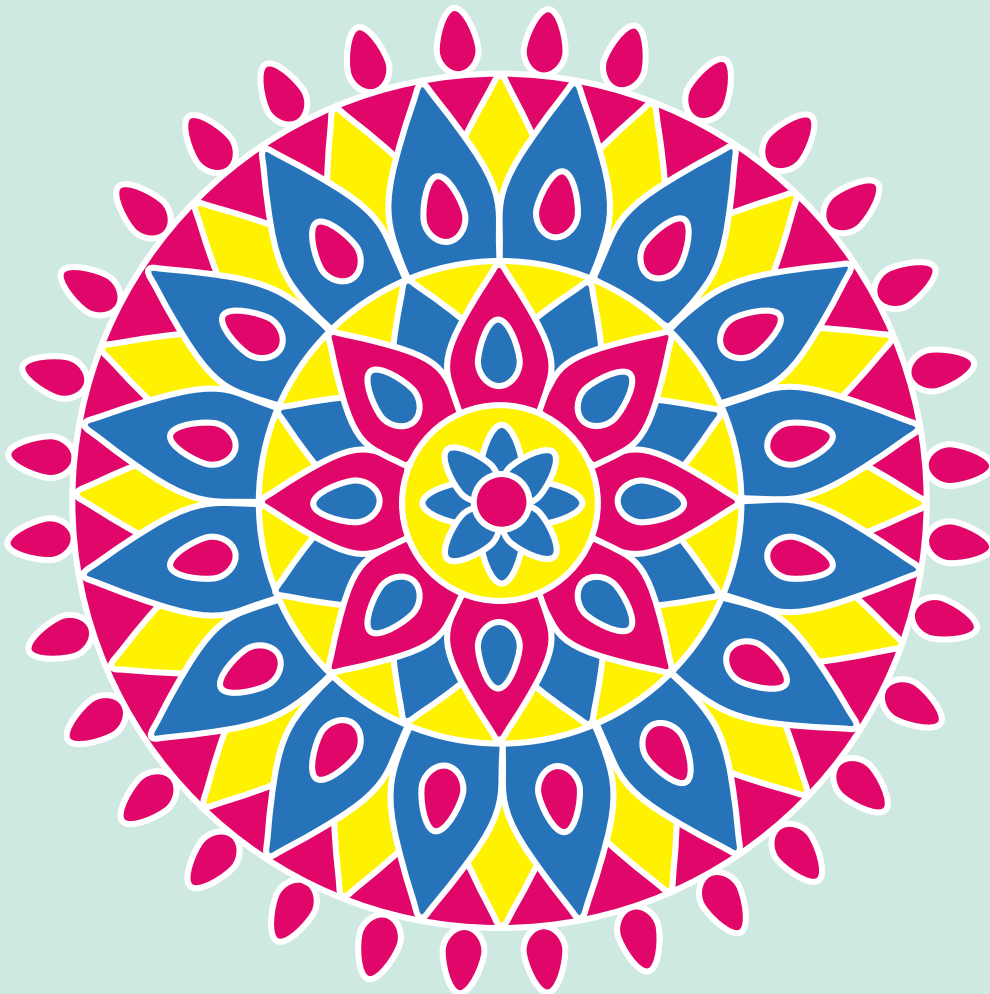
Tessellation Creation

In November 2021 [COP26](#) will take place in Glasgow with World Leaders meeting to discuss the climate emergency. Ask children to create a logo for the upcoming COP26 event by using 2D shapes. This can be done on paper or using this [online tessellation creator](#).

Rangoli Patterns

Find different examples of Rangoli designs. Investigate the significance of them during Hindu festivals and how they are traditionally made. Discover and identify the lines of symmetry and patterns that they show.

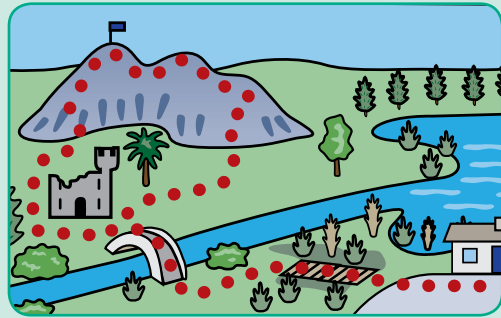
Encourage children to create their own symmetrical Rangoli patterns using a variety of materials such as paint, pencils, rice, sand etc. Once completed learners could be asked to identify any lines of symmetry in each others' designs.



MATHS OUTDOORS

Nature Walk

Before going on a nature walk discuss the route you will take. Whilst on the walk ask them to describe the route using directional language such as clockwise, anticlockwise, right turn, left turn, quarter turn, etc.



Nature Diagram

Create Venn diagrams or Carroll diagrams using chalk on the playground.

Go on a nature walk round the local area collecting different objects. Classify the objects according to their properties e.g. round, smooth, rough, green, natural, man-made.

Try different classifications on the diagram and recreate the Venn or Carroll diagram using the same items and discuss how the diagrams have changed.



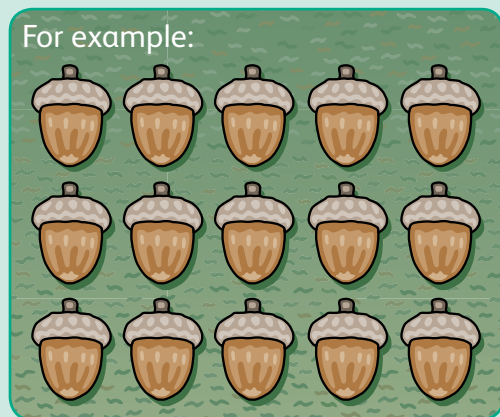
Muddy Multiplication

Create arrays using natural materials such as stones, pine cones or anything else that learners can collect.

Learners can use chalk to write down the different calculations that could be made from the array they have created.

e.g. $5 + 5 + 5 = 15$
 $3 + 3 + 3 + 3 + 3 = 15$
 $5 \times 3 = 15$
 $3 \times 5 = 15$
 $15 \div 5 = 3$
 $15 \div 3 = 5$

Can they make a different array and ask a partner to record as many calculations that relate to it as they can?



MATHS AT WORK

Maths is important in a huge range of jobs and careers. Take on the role of athlete or transport planner to explore the maths they use in their jobs.

Show Your Working

In groups, discuss and identify the variety of jobs that use maths and what aspects of maths they may use on a daily basis.

These might be jobs in their local community or their family. Each group could select one job and record an audio or video clip, or create a poster, about the maths that is used in that job.

Share your work with us on [Twitter #ShowYourWorking](#) or email info@mathsweek.scot.

Olympic Challenge

Maths is so important in sport for training and tracking success. Watch [this video](#) from Olympic athlete Eilish McColgan all about how she uses maths in her training.

Take a look at some of the events that took place in the Tokyo 2020 Olympics and discuss where maths was used when training and competing in each one.

Recreate a sprint event by measuring out 20 metres and timing each other to run the length of it. Record the times and try and improve them each day with each learner identifying their personal best for the week.

Transport

Record all modes of transport you see outside the school or at home over a given period of time in a tally chart. Learners can decide how to display these results, for example a bar chart or pictograph, and compare the results of the different methods used.

Discuss:

- What was the most popular?
- What sustainable modes of transport did you see?

Extension

Discuss who might find this information useful? Examples might include road departments or school safety campaigners.

Why would they find this information useful? Examples include planning more bike paths or reducing speed limits.

STEM Ambassadors

STEM Ambassadors are people working in STEM industries or with an interest in STEM available to talk to classes, run activities or help you plan sessions related to their work.

Browse the [STEM Ambassador website](#) to find out how to make a STEM Ambassador part of your celebrations or check out their resources.

MATHS WEEK SCOTLAND COMPETITIONS

Maths Inside

Get your cameras ready to get out and about and find the *Maths Inside* your daily life.

The Maths Inside photography competition has categories from early years up to adult so teachers and parents can enter too!

Enter at
<https://mathsinside.com/#about>.

FIND MORE

Head to the Maths Week Scotland website www.mathsweek.scot for more activities for First Level and free online CLPL opportunities.

You can find more suggested activities at:

- BBC Tally and Bar Chart Review
- Creative Star
- East Ayrshire LOST
- Scotland Learns
- Tessellation Creator
– National Council of Teachers
- Numeracy and Mathematics PLC
– Home (sharepoint.com)
- Countdown to COP26
with Education Scotland

Follow us on social media for more activities and ideas @MathsWeekScot and @edscot_maths.



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