

## Outdoor Maths Challenges

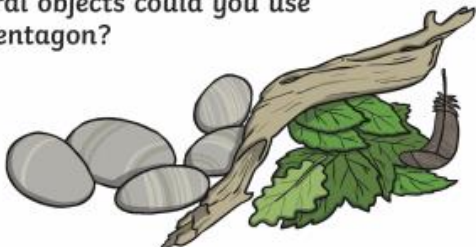
Remember you don't have to complete every single challenge! Try to do one or two each day this week.

Outdoor Maths



Using natural objects, can you make different 2D shapes? Can you use stones to make a circle? Can you make a triangle from twigs?

Which natural objects could you use to make a pentagon?



Outdoor Maths



Place a hoop on the grass and estimate with your partner how many flowers are inside. Count them! Was your estimate correct?

Will there be the same number if you move your hoop somewhere else? How could you record how many flowers are in the hoop?

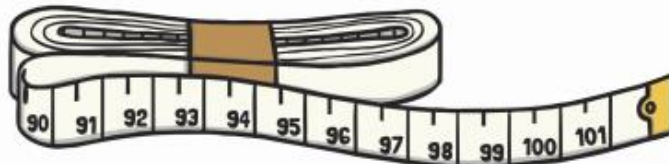


Outdoor Maths



Using a tape measure, can you find the length / height of different natural objects? Can you estimate how long / tall they will be?

Can you place them in order starting with the smallest?



Outdoor Maths



Collect a variety of different natural objects. Using chalk, make a tally chart using the objects that you have found.

Which object did you find the most of? Which object was hardest to find? Could you show your findings in another way?



Outdoor Maths



Find an even amount of leaves. How many different ways can you arrange them? What arrays could you use?

What happens when you have a different number of leaves?

Does it work with an odd amount of leaves? What about if you have 15 leaves? Can you make an array? Why/why not?



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Outdoor Maths



Using sticks and string, can you make your own kite?

What could you use to make the bows? Can you decorate your kite design?



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Outdoor Maths



Find 4 sticks and arrange them in a pattern like this:



Collect natural objects to use. Put different amounts of objects in each row and column. Can you make each row and column total 10?

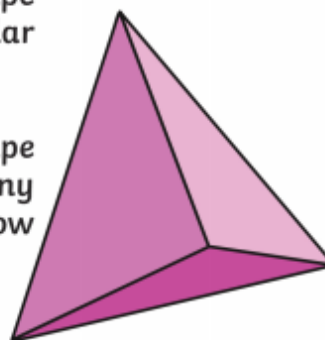
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Outdoor Maths



Collect a variety of sticks. Using string, tie the sticks together to make a 3D shape e.g. a cube or a triangular prism.

Can you describe your shape to a partner? How many edges does it have? How many vertices?



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Find different natural materials and turn them into a natural symmetrical pattern. Can you make both sides look identical?

Could you use different 2D-shapes within your picture? Do you know any patterns that exist in nature that are symmetrical?



Collect 5 different items and order them in length from longest to shortest.



Go on a shape hunt around your outdoor area. What shapes can you see? How could you record what you see? Draw a picture of the shapes you find, or write what shapes you spot on your hunt.

