



HOW TO USE THE PACK

Llygaid Mathemateg encourages both learners and educators to look for mathematics in the world around us. Using our 'Llygaid Mathemateg' helps people to see the fun in maths and encourages mathematical discussions.

1. Look at the photograph and ask general questions about it.
2. Put on your Llygaid Mathemateg to see what maths you can see.
3. Use the question prompts provided or ask your own questions.

Using Llygaid Mathemateg can deepen conceptual understanding, develop mathematical vocabulary and encourage making links between concepts.

There are 3 question prompts available for each photograph aligned to the Curriculum for Wales progression steps.

- P1** questions are suitable for learners working within progression step 1, broadly up to 5 years of age.
- P2** questions are suitable for learners working within progression step 2, broadly up to 8 years of age.
- P3** questions are suitable for learners working within progression step 3, broadly up to 11 years of age.

Check out Llygaid Mathemateg top tips and teaching ideas. to ensure impact.

[www.cullyeducation.co.uk/
llygaidmathemategconcept](http://www.cullyeducation.co.uk/llygaidmathemategconcept)

For free Llygaid Mathemateg photos and questions visit
[www.cullyeducation.co.uk/
llygaidmathemateg](http://www.cullyeducation.co.uk/llygaidmathemateg)

Did You Know?

Llygaid Mathemateg is Welsh for Maths Eyes.



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PI

What can you see?
What do you notice?
Do you own anything that is in the photo?



5 Proficiencies

Talk about what you can see in the photo. What do you like and not like? Describe something you can see, without naming it and see if others can identify it.

Geometry

Can you find something shorter and something longer than the compass?
Can you see more circular shapes or rectangular shapes?
Describe where the paper clip is.
How many Post-its long do you think the paintbox is?
What is the smallest shape that you see?
What is the largest shape that you can see?
Can you see any symmetrical shapes?
Do you think the sharpener is heavier or lighter than the paintbox. Explain your thinking.

Number

How many numbers can you see?
What numbers can you see? Show me each number with objects.
Are there more pink or blue rubbers?
How many paints are there in the box? Explain why you think that.
If there was one more/less pencil sharpeners, how many would there be?

Statistics

Can you sort the items in this photo (explaining your choices)?
Use marks to record each group of items.

Take it Deeper

Decorate your own 2023 numbers.
Which colours will you choose?
Describe your numbers, e.g. The first number is two. It is red with blue triangles. The second number is...



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P2

Geometry

Why do you think this photo has been taken?
Where might it have been taken?
Have you got any of the items in the photo?



5 Proficiencies

What could you use in the photo to represent the 4 digits shown?
Talk about the photo. Describe something you can see without naming it. Can anyone work out what you are describing?

Statistics

Can you sort the items in the photo by colour and shape. What are your categories? Which category has the most in it?

Number

Which season do you think this photo was taken in? Explain your thinking.
How many items can you see with right angles?
How many different cuboids can you see?
How many cuboids can you see altogether?
What unit would you use to measure the paintbox? How long do you think it is? How wide?
Would you use the same unit to measure a rubber?
Can you find any symmetrical shapes?

Take it Deeper

Is 2023 an odd or even number? Explain how you know.
What could you count the paintbox paints in to make it quicker than counting in one?
How many circles can you see? What is your answer to the nearest 10?
What is the smallest digit in 2023? What is the largest?
What would each digit be if you doubled them?
How many ways could you add the four digits? What do you notice about the totals? Can you explain why this happens?

How many different ways can you arrange the four digits 2 0 2 3?
How do you know you have found all the ways to arrange them?



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P3

Geometry

Why do you think this picture has been taken? Who might use a photo like this? How tall do you think they are? How wide?

Record your estimates in 3 different ways.

How many different cuboids can you see? Describe how you know they are cuboids. Can you classify them using your own criteria?

Can you find a hollow cylinder? What other objects can you think of that are hollow cylinders?

What shape do you think the pencils along the bottom are? Explain your thinking.

Can you show me all the lines of symmetry on the rectangle Post-its and the arrow Post-its?

Can you find an acute, obtuse and reflex angle? How many of each angle can you find?

Identify the type of angle the compass is set at. Can you estimate the angle in degrees?

Sketch each of the quadrilaterals that you can see in the photograph.

Can you show me the perimeter of a triangle? Square? Rectangle?

Can you show me the circumference of a circle?

Can you show me any parallel lines? Perpendicular lines?

Take it Deeper

What is the largest number you can make using the digits 2023? What is the smallest number?

What is the difference between the two numbers?



Number

What is 2023 to the nearest 10, 100 and 1000?

What fraction of the digits are blue? How many equivalent fractions can you think of? What is that as a decimal?

5 Proficiencies

Can you use Diennes to represent 2023?

How many equations can you think of that equal 2023. Do you need to use a calculator?

Statistics

Can you represent the number of items, in each colour of the digits, in a pictogram where one symbol represents more than one unit?