

TEACHER NOTES

Mathematics

Number: Counting



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Contextual Summary

This is a maths resource that engages students with their visit to The Model Village Godshill.

The on-site resource task enables students to practise their number skills giving opportunities to demonstrate accurate counting, understanding of operations and the solving of simple problems.

Students are asked to complete a number work sheet during their visit.

The task is designed to appeal to students in key stage 2.

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It is anticipated that students will have an enriched experience as they will be using their school visit as a learning environment, and this will reinforce how the effective handling of number can provide solutions to problems.

Before the visit, pupils could revise writing number sentences for pictorial representations.

There is also a pre-visit resource relating to scale, which would be a useful addition (this is ED Resource 10923).

Ability Levels

There are two different worksheets for lower and upper ability students in key stage 2 (Levels 2-3 and Levels 3-5). Teachers should look at both and see which is more suitable for their key stage 2 students.

Key skills practised in this unit:

- ▶ Accurate counting within 50
- ▶ Recognition of different forms of number and number patterns
- ▶ ASDM of number and the recording of numerical patterns as number sentences
- ▶ Identifying appropriate operations to solve a problem.

Relationship to Curriculum

The tasks relate to the National Curriculum programmes of study for Number at lower and upper KS2.

SUBJECT

Mathematics

UNIT

Number: Counting

OPPORTUNITIES FOR USE

- ✗ Pre-Visit
- ✓ On-Site Activity
- ✗ Post-Visit



CURRICULUM / SYLLABUS

- ✓ 2014 National Curriculum
- ✓ Curriculum for Excellence

Applies to Resources numbered:

1 0 9 2 4 1
1 0 9 2 4 2

Learning Opportunities

The **Mathematics** resource task linked to this document is relevant at each stage:

Resource ID: **109241** (KS2L levels 2-3)

109242 (KS2U levels 3-5)

Pre-Visit

- ▶ The task could be discussed in class prior to the trip so students are bearing this in mind when on their visit, focusing on the relevant information during their visit to Godshill Model Village.

During the Visit

- ▶ Completion of the main worksheet. (Answers for teachers are at the end of this teacher note.)

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Enrichment Opportunities www.edudest.uk

- ▶ Various graphic representations of the data could be recorded in the classroom, post-visit.

Learning Outcomes

- ✓ Students will demonstrate their skills in recognising number patterns, recording these as number sentences and using their observations to help solve mathematical problems.

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ANSWERS FOR WORKSHEET 109242



Let the challenge begin!



Look out for the letters on the path as you walk around the model village. They will help you find the answers to these questions!



What **decade** are these aeroplanes from?

1930s

Why are they called **bi**-planes?

They have double wings

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Look out for red squirrels as you walk up the street - record them on your tally!

Look for the model of the Model Village. It is 1/10th scale of the Model Village. Can you see the real church, the model church and the model of the model church? What is the scale to the original buildings?

1/100th



The model airship is 1/100th scale. It is 2.1m long.

How long would it be if it were to 1/10th scale?

21m

How long was the real thing?

210m



Are there **fewer** beach huts or boats?

beach huts



There should be 10 fielders, 1 bowler, a referee and 2 batsmen out on the cricket pitch.

Does the fielding team have the correct number of players?

No. There is 1 extra player on the pitch.

Upper Chine Girls School



Look out for model cars around the Monteagle hotel and add them to your log!

For how many years was the school used by the Royal Marines?

6 years (1939-45)

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How many groups of **THREE** pots are there?

4

Write a number sentence to show this

$$4 \times 3 = 12$$

How many groups of **TWO** pots are there?

4

Write a number sentence to show this

$$4 \times 2 = 8$$



CHALLENGE!

Complete this equation:

$$(\quad) \times (\quad) + (\quad) \times (\quad) = \text{total number of chimney pots!}$$

Before moving on, add the number plates of the two vehicles

148

Find the archery contest

On the target, blue scores 10, red scores 25 and yellow scores 50.



Is the red team or the blue team winning?

red

How many points are they ahead?

15

Find the retirement plot

How many small ridge tents can you see?

12 (+ 2 bell)

If 2 people can sleep in one of these tents, how many people in total can sleep in all the small tents?

24

Count the campers. Look behind you too! How many are there?

33

Are there enough tents?

No

How many more are needed?

5



Find the High Street shops

for your final challenges!



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There were 12 pence in one shilling. Per... One shilling was written as 1/-

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So something costing 18 pence would be written as one shilling and six pence or 1/6.

Something costing 3/6 would be three shillings and six pence, or 42 pence.

A pound was 12 shillings, or 240 pence!

Check out the prices in the shops and write down the answers in old money

One long loaf 8d

What would 2 cost? 1/4

A cucumber 2d

How many could you buy for a shilling? 6

A pork pie 1/6

What would 2 cost? 3/-

A lobster 5/-

How many old pence is that? 60d

Find the sign to Ventnor

How far is Ventnor?

4 miles

How far would that be in a 1/10 scale model?

4/10 of a mile

So... how many squirrels did you manage to find?

ANSWERS FOR WORKSHEET 109241



TALLY

- » As you walk around the model village look out for these animals!
- » Each time you see one, put a tick in the correct box.

Red Squirrels	Horses	Dogs	Cats	Pigs
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Let the challenge begin!



Look out for the letters on the path as you walk around the model village. They will help you find the answers to these questions!



Count the aeroplanes. How many can you see?

6

They are called bi-planes because they have double wings.

Can you think of another common bi- word?
(clue: it has two wheels!)

Bicycle



What numbers can you see on the hot air balloon?



Find the Griffin Hotel and count the chimney pots.

Look out for red squirrels as you walk up the street – record them in your tally!



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CHALLENGE

And can you see another smaller model of the model village inside the model of the model village?

It's no wonder ED the squirrel is puzzled!

There is a wedding at the church. How many people can you see at the wedding?

How many gypsy caravans are there?

Count the horses. How many horses must pull each caravan?



Don't forget to add the horses and dogs to your tally!



Next is a model of the seaside at Shanklin.

How many boats are there in total?

There are three different types of boats. Can you write a number sentence to show the groups?

How many beach huts are there in total?

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6+9+15 or 6+3+3+3
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Find the cricket match.

How many are playing cricket?

Train Spotting Time!

What is the number on the Sandown Zoo train?

How many dinosaurs are being transported?

How many trains stop at Godshell Station?

How many carriages do these trains pull?

Write a number sentence showing how many people are on each platform:



Can you hear a band playing?

How many people are in the band?

How many people are watching?

What is the difference between the number watching and the number playing?



Find the Monteaagle Hotel



What is the car registration number?

What is the bus registration number?

What is the sum of these two number

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The big yellow building is Upper Chine Girls School



How many chimney pots can you count in total?

How many groups of **THREE** pots are there?

Write a number sentence to show this

How many groups of **TWO** pots are there?

Write a number sentence to show this



Find the camp site

How many tents can you see?

If 2 people can sleep in one of the small tents, how many people in total can sleep in all of them?

Count the campers. Look behind you too! How many are there?

Are there enough tents?



Find St Blasius Parish Church

What is the time? Just past o'clock

As you walk past, don't forget your animal tally!



Find the Football Match

How many players should there be on each team?

With the referee, how many people in total should be on the pitch?



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Count the horses and count the jumps www.edudest.uk

How many more horses than jumps are there?



Find the High Street shops

The prices are in 'old money'. 8d means 8 old pence.

What could you buy for 8d?

Find the sign to Ventnor

How far is Ventnor?

Finally, **look for the teapot**. What are the numbers on it?

What do you think these numbers mean?