



# The Peace Maze

Education Pack

Mathematics

Key Stage 1

P3 & 4

## Pre Visit Workbook

Name: .....

School: .....

Class: .....

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Teacher

# Peace Maze

## Mathematics - Key Stage 1

### Introduction

The majority of Key Stage 1 pupils will be familiar with the concept of mazes, through puzzles in comics, the reading of anthologies of myths and legends and the playing of computer games.

The Peace Maze at Castlewellan Forest Park presents pupils with an opportunity of diverse mathematical experiences, which involve the pupils in different modes of learning and capture their imagination.

### Aims

To provide an enjoyable way of doing maths and at the same time make maths more meaningful by making it more relevant to practical situations.

To incorporate within the exercises and activities in the Peace Maze maths package, attainment targets of the programmes of study of the Northern Ireland Curriculum for Key Stage 1 Mathematics.

**Peace Maze Key Stage 1 Mathematics Package** consists of:

#### P1 & P2

1. Peace Maze Activity Workbook (teacher guidance)

#### P3 & P4

1. Peace Maze Pre-visit Workbook
2. Peace Maze Activity (visit) Workbook
3. Peace Maze Post-visit Workbook

The P3 & P4 workbooks can be done individually, as a group exercise, or be completed step by step with teacher guidance. Each workbook should take approximately 30 minutes to complete. Many of the exercises in the workbooks can be adapted and/or expanded to suit the individual needs of the pupils. Teachers may select appropriate ability levels of sheets for their pupils to work on.

### Curriculum content

Pupils are involved in different modes of learning including exploring, investigating, recording, doing and observing. These activities encourage pupils to develop their mental mathematics skills, their ability to tackle problems, as well as developing different approaches to solving problems.

The addition and multiplication of currency and measurement helps pupils to develop their mathematical processes through practical tasks in solving real-life problems. Opportunities are also presented to understand the operations of addition, subtraction, multiplication and division in problem solving.

The activities in the Peace Maze workbooks help to develop a pupil's self esteem, encourage creative thinking skills, decision making skills and present the challenge of spatial problems. They also give pupils an opportunity to formulate opinions and to assess and interpret situations.

### Curriculum Advisory and Support Services (CASS)

Lyn Irwin and the Key Stage 1 & 2 Mathematics team of the Curriculum Advisory and Support Service of the South Eastern Education and Library Boards provided continuous guidance, advice, encouragement and support during the development of the Peace Maze mathematics package.

# The Tangle Maze

Follow the paths in the Tangle Maze and match the numbers with the pictures.

You can use different coloured pencils or pens for each path.

The maze consists of a complex network of grey paths. Four starting points are marked with numbers in boxes: 1 (left), 2 (top-left), 3 (top-center), and 4 (top-right). Below the maze are four boxes containing pictures to be matched with the paths:

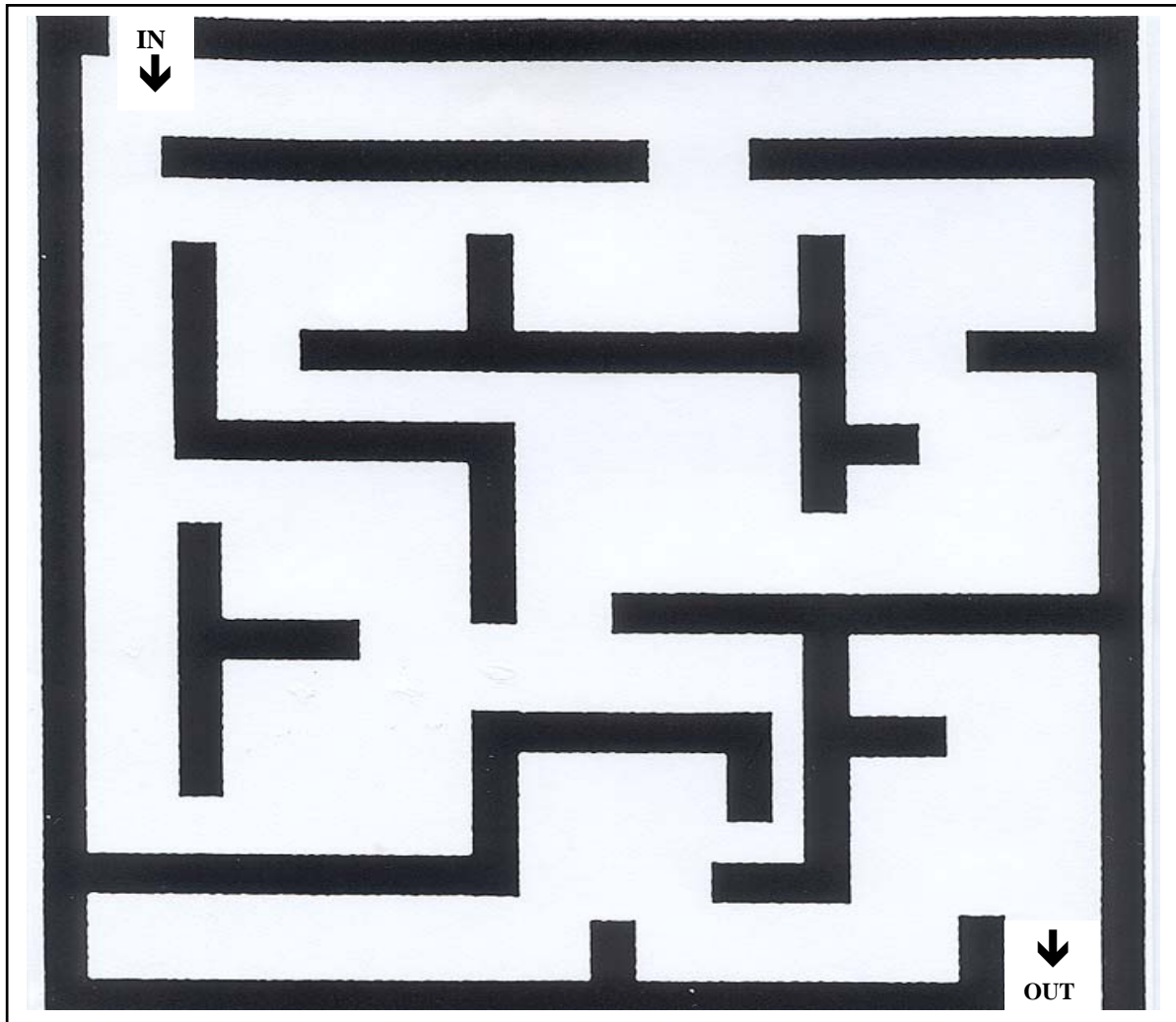
- Box 1: Four black silhouettes of dogs arranged in a 2x2 grid.
- Box 2: Three black silhouettes of spiders arranged in a triangle (two on top, one on bottom).
- Box 3: Two black silhouettes of cats arranged vertically.
- Box 4: One black silhouette of a bird in flight.



# The Square Maze

Follow the path and find a route across the maze.

The path is pale blue and the hedge is black.



With a coloured pencil or pen mark your route across the maze.

How many corners did you have to turn to get across the Square Maze?

# The Peace Maze hedge is made of yew trees.

What is the total number of yew trees in the hedge below?



If poles were put between these yew trees, how many poles would be needed?

Three of the yew trees in this hedge were blown down, how many yew trees were left?

Not long afterwards 2 yew trees were cut down, how many yew trees were now in the hedge?

Why do you think the 2 yew trees in the hedge were cut down?

The yew trees in a hedge can be many different shapes and sizes.



No.1

2

3

4

5

6

7

8

What is the number of:

the tallest yew tree?

the smallest yew tree?

the widest yew tree?

the narrowest yew tree?

Three yew trees are the same height, what numbers are they?

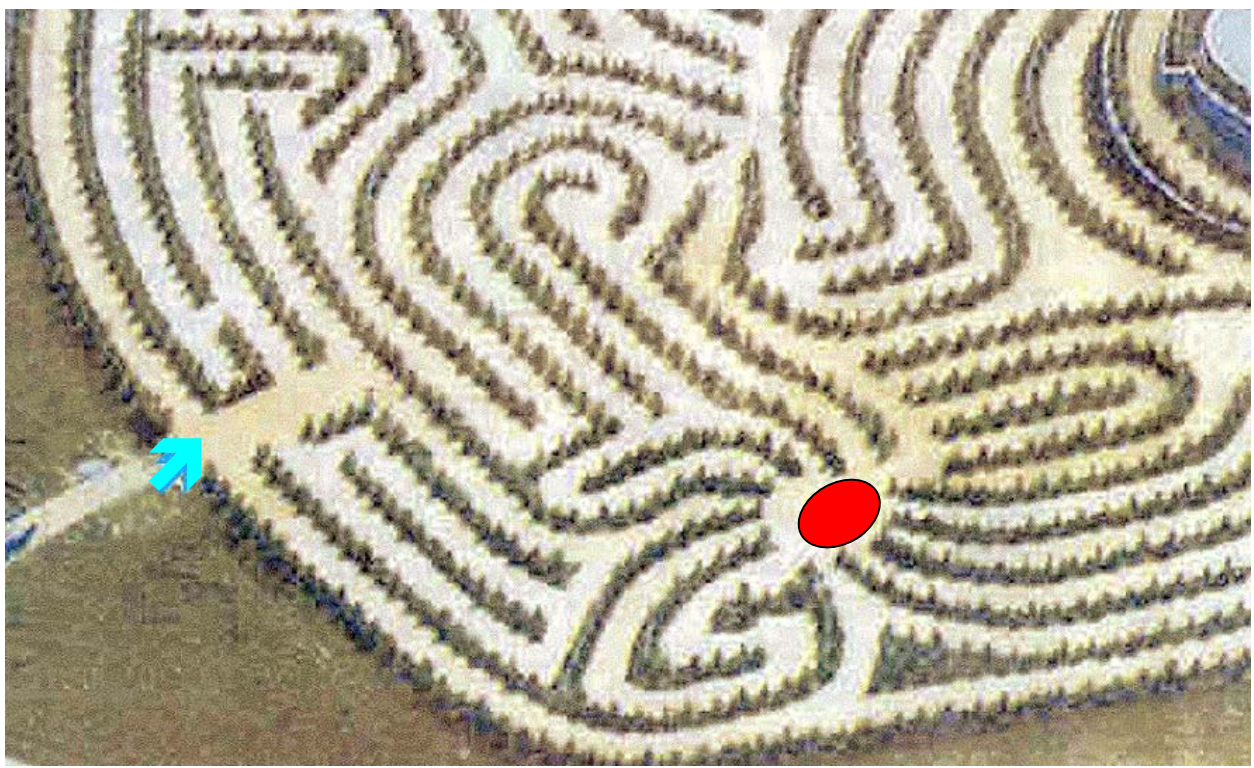
Add together the numbers of the three yew trees that are the same height.

# The Lobster

This is a section of the Peace Maze.

Part of the hedge pattern looks like the shape of a Lobster.

Colour a path from the entrance of the Peace Maze (arrow) to the centre of the Lobster (red dot).



Can you find two more paths from the entrance of the Peace Maze to the centre of the Lobster?

(Mark each route with a different coloured pencil or pen)

What is the colour of your longest route?

Will you be able to find your way to the Lobster when you visit the Peace Maze?

YES

NO