

TEACHER NOTES

Mathematics

Geometry - Position & Direction

Contextual Summary

This is an on-site mathematics resource that engages children with their visit to Blackgang Chine, in particular the maze.

This resource is for key stage 1 students in Year 2, and it links directly to the geometry section of the National Curriculum for mathematics, focusing on position and direction.

This fun activity enables students to develop their use of directional language, and to practise giving instructions and directions in a clear and methodical way.

The task is designed to appeal to students in key stage 1, but could be a fun activity for older children.

Teaching resources by Education Destination Ltd.

Curriculum relevant materials supporting school trips to the Isle of Wight

Book today with Education Destination and get full access to this and hundreds more quality resources

www.edudest.uk

It would be useful if students have had previous teaching on clockwise and anti clockwise, and knowledge of quarter, half and three-quarter turns.

This resource will provide students with an enriched experience as they will be using their visit to practise important mathematical skills, whilst having fun and working together.

Ability Levels

This resource is suitable for key stage 1 students (ideally Year 2), who can work in pairs effectively.

There is one mixed ability resource for all students. For challenge, it could be easily adapted by changing it to include degrees instead of quarter turns.

Teachers could simplify instructions verbally if required, or use the worksheet as a prompt only.

Key skills practised in this unit:

- ▶ Using mathematical vocabulary to describe position, direction and movement, including movement in a straight line
- ▶ Distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)
- ▶ Communication skills - using clear instructions.

Relationship to Curriculum

The above skills are required to be taught and practised as per the National Curriculum / Curriculum for Excellence, for key stage 1 mathematics.



Education
Destination



SUBJECT

Mathematics

UNIT

Geometry - Position & Direction

OPPORTUNITIES FOR USE

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



Peripheral Task

CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resource numbered:

106041

Learning Opportunities

Pre-Visit

- ▶ Students learn about position and direction and the key terms.

During the Visit

Students to complete tasks within the Mathematics resource linked to this document: *Be A-Maze-d!*

Resource ID: **106041** (KS1 mixed ability)

- ▶ Students work in pairs or small groups.
- ▶ Use of mathematical vocabulary to describe their actions, and communicate effectively.

Teaching resources by Education Destination Ltd.

Curriculum relevant materials supporting school trips to the Isle of Wight

Book today with Education Destination and get full access to **this and hundreds more** quality resources

- ✓ Students use the concept and language of angles to 'describe turn' by applying rotations in practical contexts.

www.edudest.uk

- ✓ Students themselves move in turns, giving instructions to others.

Learning Outcomes

- ✓ Students will follow and give instructions involving position, direction and movement.
- ✓ They will recognise and use whole, half and quarter turns, both clockwise and anticlockwise.
- ✓ They will communicate with their partner effectively and clearly.

Possible follow-up tasks:

In addition to the task detailed, students could also:

- ▶ Design their own maze!
- ▶ Create a maze boardgame based on the Blackgang design.

For further details visit educationdestination.co.uk

- ▶ Hundreds more resources
- ▶ Search by age, subject, exam board
- ▶ Virtual venue tours and maps
- ▶ Bespoke online itinerary builder
- ▶ Risk assessments
- ▶ Travel and accommodation

