

PARENT NOTES

Mathematics

Geometry - Position & Direction



At A Glance:

- ✓ Mathematics
- ✓ Key Stage 1 (Y2)
- ✓ National Curriculum 2014
- ✓ Practises mathematical vocabulary skills

Crossover with English

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What's Involved?

Students will be able to use mathematical terms to help direct a partner through the maze at Blackgang Chine.

They will work in pairs to communicate the most effective route through the maze by describing 'turn' and giving instructions.



"The essence of mathematics lies in its freedom..."

- George Cantor

About this activity

This is an on-site mathematics activity 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.

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.

Students work in pairs or small groups directing each other through the maze.

The tasks designed to appeal to students in Key Stage 1, but could

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What is the task?

- ▶ Students have to use mathematical terms such as clockwise, anticlockwise, quarter, half and three quarter turns, to guide each other through the maze.
- ▶ They will have to communicate clearly and give effective mathematical instructions.

How does this link to my child's learning?

- ▶ 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.

What will they learn?

- ▶ Students will be able to use mathematical terminology to guide others through the maze.
- ▶ They will learn how best to communicate and determine the most effective route.

How does this enrich study undertaken in school?

- ▶ It is an opportunity for students to gain real life experience in using the mathematical skills they have begun to learn in the classroom, thereby encouraging an awareness of subject and skill relevance.

What do they need to have done in preparation?

- It is suggested to teachers that some background to the topic be taught and practised in class prior to the trip so students are aware of the mathematical skills and terms they will be using.

What skills do they need to demonstrate?

- 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.

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This activity was compiled by Education Destination in conjunction with **Blackgang Chine**. We help students of all ages and abilities to experience excellent curriculum based learning opportunities at many Island venues and attractions.



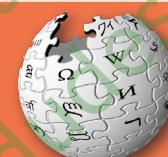
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Blackgang Chine Land of Imagination will entertain, engage and excite visitors of all ages. This coastal theme park allows the imagination to run wild. Become a pirate, dinosaur expert or cowboy and discover the hidden world of the smugglers!



blackgangchine.com

For further reading about Blackgang Chine and the Isle of Wight, [wikipedia](#) offers excellent articles. These would serve as an ideal introduction for learners prior to their visit, and is suitable for ages 7 upwards.



wikipedia.org

What other follow-up tasks are there?

In addition to the task detailed, students could also:

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

Is there any scope for future learning at Blackgang Chine?

- ✓ Yes. There are many other subjects and tasks developed for this key stage and for subsequent visits. There is much to be learned here!
- ✓ See our website's venue pages for more great learning options!

