

Magical Maths (half or full day)

Key Stage 1

Summary of Day

Enjoy using a range of mathematical skills in an outdoor setting. You can choose either our exciting Magical Maths Trail Kidnap Rescue! or the Mighty Measuring Maths Marathon as a half day activity and combine with another half day activity or do the two together for a full maths day.

Learning objectives

Magical Maths Trail Kidnap Rescue!

- To select and use appropriate mathematical skills to solve a variety of mathematical problems

Mighty Measuring Maths Marathon

- To select and use appropriate equipment when solving problems using measurement
- To use correct language and vocabulary for measurement
- To compare and measure using non-standard and standard units of length

Key Vocabulary

standard measures
non standard measures
units
millimetre
centimetre
metre

tangram
shape

Prior Learning

To maximise children's learning during their visit, it would be beneficial for them to :

- Have a basic understanding of the Key Stage 1 maths curriculum
- Have experience of using a ruler, metre rule and tape measure.

Example Outline of the Day

Approx 10 am	Arrive / Introduction to Gatton Park / Safety talk
10.15 – 10.45	Walk to the Pleasure Gardens Maths Trail completing the tangram activity on the way.
10.45-11.30	Magical Maths Trail Kidnap Rescue!
11.30 – 12.00	Walk back to the classroom
12.00-- 12.30	Lunch
12.30 – 1.00	Short discussion on traditional types of measuring – hands, paces, cubits etc. Reasons for using estimates and needing accuracy when measuring
1.00 - 2.00	Team Activity “Practical Measuring Marathon” using a range of tools to measure items in the park, choosing the most practical ways to <ul style="list-style-type: none">• Estimate measurement• Get accurate measurements• Choose the correct approximations to answer the team challenge
2.00 – 2.15	Plenary session
2.15 – 2.30	Return to the classroom and preparation for departure.

Assessment Opportunities

Gatton Education Staff will assess progress throughout the day by open ended questioning and a plenary session.

- Have the children selected the appropriate skill to answer mathematical problems
- Have the children selected the appropriate equipment for solving measuring problems
- Have the children selected appropriate units for measuring.

Information for the group leader

- Outdoor clothing & sturdy footwear / wellies are advised
- Please note that due to the nature of the study site, adjustments may need to be made to this programme for those visitors who use a wheelchair or have limited mobility. Please contact the Centre to discuss alternatives.
- Please note this day will go ahead in most weather conditions. However alternative bad weather activities are available at the Centre if necessary.
- The pupils will be in small groups accompanied by an adult for part of this activity. The maximum number of groups is 6 and ideally these groups should be allocated in advance. The accompanying adult must be able to support the children in completing the mathematical challenges
- Centre Risk Assessments are available for those who come on a pre visit, these may be used to write your own risk assessments in accordance with your school's requirements.

Post Visit learning opportunities

- For more ideas visit the follow up activities section of the Gatton Trust Website.

Differentiation	Access	Adult Participation
<ul style="list-style-type: none">• Adults to encourage participation and give support as appropriate• Specific adjustments can be made to suit individual needs in conjunction with the class teacher	<ul style="list-style-type: none">• Large worksheets can be provided with prior notice.• Different learning styles considered throughout the day.• Please inform us in advance if any of your students have limited mobility.	<ul style="list-style-type: none">• Adults to encourage participation and give support as appropriate during practical tasks.• Adults to accompany a small group completing maths trail on their own.• Please ask adults to keep their mobile phones switched to silent during the teaching part of the day and only make and receive calls at lunch time.

Resources

All resources for the day are provided by Gatton Park Education Centre, including:

- Measuring equipment