

TEACHER NOTES

Mathematics

Ratio & Proportion: Scale

Contextual Summary

This is a maths resource that engages students with their visit to The Model Village Godshill. The resource task enables them to practise their number skills giving opportunities to demonstrate understanding of place value and tenth scale.

Students will measure the classroom or similar room, calculate a tenth size and create a tenth scale model. The activity will give pupils the opportunity to practise finding tenths of numbers and measurements, before the visit, thereby enriching their experience at The Model Village. They will then measure a house at the venue.

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Task Implementation

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This resource is designed to be used for pre-visit, on-site and post-visit tasks. This is comprised of a pre-visit resource suitable for all key stage 2 students, to be completed in the classroom, as well as an on-site and post-visit activity for those students in upper key stage 2.

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 motivate them in the various tasks.

Before the visit, students should complete the resource that introduces place value and tenths. A tenth scale model of the classroom should be created. See lesson plans for more detailed implementation suggestions.

Ability Levels

The pre-visit resource is suitable for mixed ability key stage 2, however the post-visit tasks are different for the older pupils owing to the need for higher level motor skills and co-ordination, as the size of the models is small.

Key skills practised in this unit:

- ▶ Place value including tenths
- ▶ Multiplication and division by 10
- ▶ Measuring length
- ▶ Creation of nets (upper key stage 2 only).

Relationship to Curriculum

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



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SUBJECT

Mathematics

UNIT

Ratio & Proportion: Scale

OPPORTUNITIES FOR USE

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

CURRICULUM / SYLLABUS

- ✓ 2014 National Curriculum
- ✓ Curriculum for Excellence

Applies to Resources numbered:

109231
109232

Learning Opportunities

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

Resource ID: **109231** (KS2L mixed ability)

109232 (KS2U mixed ability)

Pre-Visit

- ▶ The pre-visit resource is intended to help the students appreciate the precise scale to which the models at The Model Village Godshill are made.

During the Visit

- ▶ Completion of the main worksheet - taking measurements.

Post Visit

- ▶ **Teaching resources by Education Destination Ltd.**
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Enrichment Opportunities

- ▶ Students will learn to multiply and divide by ten within the decimal grid, understand how models are made to the scale of 1/10.
- ▶ Upper key stage 2 students may learn nets as part of the post visit resource.
- ▶ There is a separate on-site maths resource that could be completed whilst on the visit (10924).
- ▶ Further scale model studies could be completed within the school environment.

Learning Outcomes

- ✓ Students will demonstrate their skills in handling data within a decimal grid. They will understand what is meant by a 1/10 scale model and will create their own 1/10 scale models.
- ✓ Students will respond to the work of others in a critical way giving appropriate feedback.

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