

USING SCOILNET MAPS TO MAKE A MATHS TRAIL

Scoilnet Maps Lesson Plan - Primary

Level

This lesson could be used, or adapted for use, with 1st up to 6th classes. It involves 2 x 45 min sessions approximately.

Curriculum Linkage:

Subject: SESE Geography

Strand: Natural Environments

Strand Unit: The local natural environment

It can readily be integrated with any Maths strand involving problem solving.

Objectives:

That **all** children will be enabled to view an area suitable for a Maths trail in or near their school yard on the interactive whiteboard using Scoilnet Maps.

That **most** children will be enabled to create challenges to include in a Maths trail in that location.

That **some** children will be enabled to design, implement and complete the Maths trail, then explain it and challenge other groups.

Approach:

- Use Scoilnet Maps to identify an area around the school, either the yard or a field, which can be used for a Maths trail.
(**Key questions:** Will there be enough space for these challenges? What items will we need?)
- Give an example of how to design a Maths trail – use <http://www.haveyougotmathseyes.com/> to stimulate creativity.
- Plan a Maths trail physically by walking around the area.
- Once an area has been chosen, use the interactive whiteboard, P.C. or laptop to design the trail. Print the Maths trail area and work on paper too.
(**Key questions:** Find area, find length, find shapes, find right angles, estimate the number of cars, etc)
- One challenge could be to use the Measure tool on Scoilnet Maps to get perimeters and areas, then use a trundle wheel to physically measure same. Compare findings.
- Consider using the Draw tool on Scoilnet Maps to design the challenge on screen.
- Compile the Maths trail and show it using Scoilnet Maps. Then print out the map including the challenges.
- Physically set up the challenges and challenge each other.

Resources Required:

- Interactive whiteboard with Internet access.
- A printer.
- Yard or a field near the school.

- Clipboards and pens.
- P.E. equipment and chalk for the Maths trail. Also use markings on the ground of the school yard such as compass, hopscotch, etc.
- A camera to record and communicate the challenge.
- Tablets or laptops could enhance this lesson if available to the class.

Integration:

P.E.: Maths trail, walking outdoors

English: Language development

Maths: Problem solving

Room Layout:

Groups of six with various roles in each group. Name the items that each group needs; Write out the questions for the worksheets; Go on a field trip around the school to come up with ideas, then explore those on Scoilnet Maps; Enlarge and print – draw the various challenges onto the map.

Assessment:

- Design the Maths trail.
- Present the Maths trail.
- Complete the Maths trail.