Maths

Y5&6 – Maths using Statistics
with links to Sustainable Travel - Lesson 4

Objectives:	• To make connections between data and coordinates, scales and graphs
Success Criteria:	• Use of data previously gathered • Connections and links being made • Co ordinates used to plot objects • Deductions being made

Starter Activity	LA 3b – 4c
Discuss the term "bird's eye view". From knowledge of school and given an axis (could be a map of the school buildings already printed on graph paper), children to plot the cycle/scooter storage in relation to the school. **Teacher Input with key questions:** Recall the main points from yesterday's lesson about cycle and scooter storage. What conclusions did we make about the storage? Is it the right size – too big or too small? Is it in the best place? Where else could it be put? Are there any things that make it difficult to access? Would it be better to have separate storage for scoters and cycles? Would the storage be better located in a different part of the school? Revise work on co ordinates – and the X Y axis. Make links to work on area and perimeter too. Task To plot where the cycle/scooter storage is now and any paths and buildings that are near them. Add in desired location for new storage and a key to show any changes in size, shape and usage.	Work in pairs to create co ordinate graphs. CT to support. What does this tell us?
	MA 4b – 4a Work in pairs to create co ordinate graphs. LSA to support How easy will it be to make improvements?
	HA 5c – 5b Work in pairs to create co ordinate graphs. Independent. How easy will it be to make improvements? Is there anything else that would need to be considered?
	Plenary Using each other's plans - what have we found out? How easy would they be to implement?
	Assessment: Can solve comparison, sum and difference problems using information presented in a line graph. Can complete, read and interpret information in timetables. Can decide which representations of data are the most appropriate and give reasons. Can connect work on co ordinates and scales to graphs.

Follow up literacy: Write a persuasive letter to your School Travel Champion, Head Teacher or the School Travel Planning Team at Hampshire County Council explaining the reasons why your school needs more / improved cycle and scooter storage. Tell them the reasons why and include the evidence you have researched. Persuade them to help you to fund some new storage or give you ideas about raising money to fund some yourselves.