

Lesson: How active are you?		
Learning Objectives: Interpret data, make comparisons, draw conclusions based on real data. Use comparative bar charts and manipulate data. Investigate the activities pupils do in their spare time. Understand the importance of exercise in lifestyle and consider new activities.		
Starter: Using the OHT 'Activities done by Children'. Do guess and reveal activity on axes and labels. Discuss. Repeat activity for pupils in class. Compare with OHT. (or do task interactively)	Pupils Give reasons for their choice of graph labels. Consider the activities they have done in the previous 2 weeks and help complete class graph and compare.	Teacher Aid pupils in deducing the hidden labels. Facilitate activity to create class graph to compare.
Main: Use the worksheet to investigate the use of comparative bar charts. Click on related links to check answers and investigate further. Extension: Use raw data to make gender comparisons on activities undertaken in previous 2 weeks.	Pupils Complete worksheet tasks. Check their answers online. Attempt extension task.	Teacher There is an answer sheet for pupils to write on should you wish to use it. Help pupils in completing worksheet tasks. Give ideas on extension task.
Plenary: Have a class discussion on whether sport participation is increasing/decreasing and any differences in genders. Consider creating an action plan on how to encourage/promote sport within your school.	Pupils Take part in class discussion, giving sound arguments for the point they make. Suggest ideas on how they can improve participation of sport in their school.	Teacher Read the two documents published by Sport England. Decide which statistics will be appropriate for your class. Enable discussion, and encourage pupils to produce own plan to promote sport.
Outcomes: All pupils will: Provide info. on their activities, attempt the worksheet, listen to class discussion. Most pupils will: Complete worksheet, participate in class discussion, give reasons for their ideas. Some pupils will: Make good attempt at the extension task and give sound reasons for all their answers.		
Resources: Worksheets, Answer sheets, Spreadsheet file, Spreadsheet software, either Whiteboard/OHP, 2 Sport England documents, Internet Link.		
Classroom Management: Whole class and individual work. Ideally lesson should take place in a computer room and an interactive whiteboard is useful for whole class activities, however, lesson can be easily adapted without use of ICT.		
Keywords: Bar Chart, Comparative, Data, Sport, Activity.	KS3 Strategy Links/NC/Cross-Curricular Links: Maths: MA4 pages 262-263 KS3 NNS Framework PE: 4 c) and d) PSHE 2 b) and c) and Citizenship 2 a), b) and c), 3 c) This lesson is ideal for times when practical lessons are not possible.	
Prior Knowledge: Graph interpretation, Constructing simple bar charts, Using the web/internet.		
Assessment of Learning: Class Discussion, Answers to Worksheets, Data Output Produced.		
Extension Activity: Research a sport you have always wanted to try. Find a local club and make contact. Who is the sport's governing body? Learn about the rules and what equipment you might need. Try the sport and write an evaluation.		
Homework Ideas: Write a biography on a famous sporting person you look up to and explain why you admire them.		

Notes:

Starter: This data comes from a sample of Phase 3 from the CensusAtSchool project at www.censusatschool.ntu.ac.uk This can be set up using a whiteboard. Use text boxes to hide labels and axes (except title) and then move text boxes as necessary. To effectively compare graphs, either complete the set-up spreadsheet in the related files, or create your own in advance.

Main: The data used in the worksheet is included in the spreadsheet file for the lesson. The raw data for the Extension task is a sample of Phase 3 data from CensusAtSchool.

Plenary: The documents http://www.sportengland.org/resources/pdfs/publicat_pdfs/Young-People-and-Sport-2002-headline.pdf and http://www.sportengland.org/resources/pdfs/publicat_pdfs/Womens-participation-factsheet.pdf provided are reproduced with kind permission of Sport England at www.sportengland.org. There are many statistics which may be useful for the class discussion. Once you have decided which are the most appropriate for your class it may be useful to produce a simple handout for the pupils to read.

For another related activity see: <http://www.censusatschool.ntu.ac.uk/files/haretortoise.pdf>
<http://www.statistics.gov.uk/cci/nugget.asp?id=735>

Your own notes/questions:Notes on lesson/evaluation