



ACTION BASED ACTIVITIES

TOPIC N6.3 : SPORT

THEME N6 USING ICT IN SOCIAL ROLES



APPLICATION OF NUMBER

LEVELS 1 & 2

ISSUED SEPTEMBER 2005

INSTRUCTIONS

WHAT DO I DO?

Use this Theme Template to help you:

- plan an Action-based Activity on the theme of Using ICT in Social Roles
- carry out an investigation into the subject
- produce evidence needed for your portfolio.

NOTE: Use this booklet WITH your Learner's Planner and Guide.

WHAT IS ASSESSED?

Using ICT in Social Roles is one of six themes you can choose for your Action-based Activity/portfolio work. It includes topics such as:

N6.1 Using Spreadsheets

N6.2 Online Shopping

N6.3 SPORT

APPLICATION OF NUMBER

TOPIC N6.3 : SPORT

TOPIC N6.3 SPORT

Sport is a big subject and you will need to narrow the topic down. This guide will take you step by step from getting started, to writing and checking your final pieces of work. Each step follows Part Two of your *Learner's Planner & Guide*, so read it alongside this Theme Template.



It's a good idea to follow this advice.



You must do this to get the qualification.



**STEP
A**



CHOOSING A TOPIC

One of the best ways to start thinking about a subject is to *mindmap*. You can find how to do this on page 5 of the *Learner's Planner & Guide*.

TASK 1

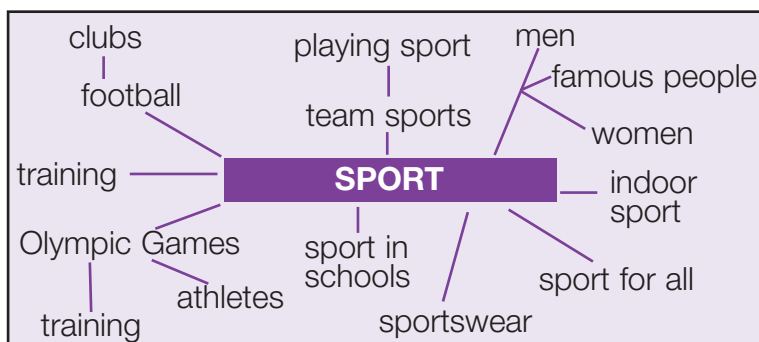
Allow about
20 minutes

On your own, or with a colleague, think about and talk about "Sport" and aspects of it you might like to study.

Work together to make a **mindmap** of the subject. You may want to think about:

- which sports interest you
- how you might use computers when exploring a sports topic
- famous sportsmen and women
- sport as a career
- sports training
- watching and viewing sport.

PORTFOLIO EVIDENCE – You could copy and add to the unfinished example below. This could then go into your portfolio as evidence that you have thought about your chosen subject.



ESSENTIAL SKILLS
ACTION BASED ACTIVITIES



Continued

TASK 2
Allow about
15 minutes

When you have made your mindmap, focus on one or two ideas that:

- interest you
- will be easy to research and get information about (talk to your tutor if you are unsure).

Write these ideas down and then try to turn them into **QUESTIONS**. This will help when you write up your conclusions later. The examples in the box may help you do this.



Topic : Sport – using ICT

Original Idea	Question
Favourite sport	How can a computer help me develop my interest in sport?
Supporters Club	How can ICT be of benefit to a keen sports supporter?
Sports training	How can computers help a sports person with their training?

TASK 3
Allow about
10 minutes

In your portfolio, write down your chosen title/question.

Check with your tutor that it is okay. (Remember, you can always change it later if necessary.)

TASK 4
Allow about
30 minutes

PLAN – It's a good idea next to draw up a plan of action. Make a table and on it write down what you intend to do and when you will do it by. Highlight key dates and deadlines (e.g. when you are carrying out a survey or presenting your findings).



APPLICATION OF NUMBER

TOPIC N6.3 : SPORT

**STEP
B**



CHOOSING & INTERPRETING INFORMATION

Interpreting information from suitable sources is an essential part of the qualification and you must be able to show that you have collected, read and extracted information from **DIFFERENT** sources.

There are lots of ways of finding information such as:

- books and other resources in the library
- sports and computer magazines and in newspapers
- using the Internet
- talking with experts on computer applications.

TASK 5

Allow about
2-3 hours

Look for suitable documents to read. Remember:

- at **both levels 1 and 2** you must use **TWO** different sources of information.
- overall **at level 1** at least one source must include a table, chart, graph or diagram
- **at level 2** at least one source must include material containing a chart or a graph.

You will need to make careful notes as you work.

Put these in your portfolio (see also pages 8 and 9 in the *Learner's Planner & Guide*).



Topic: "Running a sports club?"

Title of magazine: "Computing Today"

Date: May 2002

Author: Andy Miro

Website: Making your sports club run smoothly

Main points in the article

1. A PC has lots of uses in a sports club.
2. A membership database will help with mail shots and keeping up to date.
3. Spreadsheets can be used to keep track of money, including bar sales.
4. The computer is useful for mailings and advertising.
5. Some clubs use computers to store training schedules.
6. Every club should have a website and it's easy to create one.

Summary: Write up your notes in your own words.

This is a main piece of evidence.



ASSESSMENT Your tutor will assess that:

- you have chosen the information you need
- you have obtained the information needed
- you have identified the best methods to get the results you need.

Remember to label sources clearly.

**STEP
C**



CARRY OUT AND CHECK CALCULATIONS

Carrying out and checking calculations is an essential part of the qualification. At each level you are required to carry out calculations to do with:

a. amounts/sizes	3	3
b. scales/proportion	3	3
c. handling statistics.	3	3
d. using formulae		3

It may be difficult to cover all the required calculations for this topic (See *Learner's Planner & Guide*, page 10).

TASK 6

Allow about
1 hour

1. Carry out calculations. You will need to:

- pick out the data/information you think will be useful
- decide on the calculations you need to find the results you want
- show calculation methods clearly
- check calculations and correct any errors

At Level 2 calculations must involve two or more steps

Talk this over with your tutor if you are at all unsure. A few ideas are given below.



CARRYING OUT AND CHECKING CALCULATIONS

Examples – Carrying out and checking calculations

At level 1:

- you might use information collected first hand as the basis of calculations (eg number of football matches won, lost or drawn; match attendance; league table places). You might also carry out calculations using data from secondary sources such sports books and training manuals containing tables, charts, graphs or diagrams.

At level 2:

- your calculations will be more complex, perhaps comparing two sets of data on a similar subject. If you carry out a survey (e.g. on people's opinions about a particular sport or sportsmen or women) you will have plenty of data to process.



ASSESSMENT Your tutor will assess:

- how well you carried out your calculations (including your working)
- that you checked your methods
- that you spotted and corrected any errors
- that your results make sense.

**STEP
D**



INTERPRETING RESULTS & PRESENTING FINDINGS

Having collected, sorted, extracted data and carried out calculations based on them, you are now ready to interpret your findings.

TASK 7

Allow about
3 hours

1. Go through all the information you have collected and sort it out carefully. Keep only relevant information and make sure EVERYTHING is properly labelled.
2. Now sift through again and, on notepaper, write down your main findings and conclusions. Remember, your first question (Task1)? Can you now answer your question?
3. Think how you will present your information.

Remember:

- At level 1 you have to present it in **two** different ways using charts or diagrams
- At level 2 you need to present it in **two** different ways using graphs, charts or diagrams.

Other points to consider:

- Which graphs, charts or diagrams will you use to present you findings?
- How do the results of your calculations relate to the purpose of the action-based activity?

(See Learner's Planner and Guide page 12)

TASK 8

Allow about
3 hours



At this stage you will be required to present your findings to a tutor or supervisor. Before you hand your work in, check that:

- you have covered all requirements intended
- that each section has suitable headings/labelling
- that diagrams, charts, maps etc are properly labelled
- pages are numbered
- there is a contents page.

N.B. There is a checklist on page 14 of the Learner's Planner and Guide



It is a good idea to produce a draft plan/outline of what you will include in your final presentation. An example is given on the next page.

STEP
D



INTERPRETING RESULTS & PRESENTING FINDINGS
continued

EXAMPLE OF A DRAFT PRESENTATION PLAN

Topic: Manchester United Football Club

1. I will present my work as a **report** (computer typed and to include graphs, tables etc) with the sections below.
2. **Introduction** – I will include what I wanted to find out and why the subject interests me.
3. **Method** – a short section saying how I set about collecting data/information e.g. surveyed people’s views on ‘Man.U.’; kept records of games played this season; made profiles of three key players.
4. **Calculations and Interpretation** – I will include how I will calculate numbers, percentages, averages and extract information from the data collected.
5. **Presentation** – I will produce a computer database; spreadsheet; graphs and tables and a written report.
6. **Appendices** – to include the questionnaire used in the survey; tables of data collected.

I must remember to number pages and add a Contents page.



ASSESSMENT Your tutor will assess your work as follows:

At level 1 you will be assessed on:

- how you have interpreted the results of calculations
- suitable choice of chart or diagram with appropriate labels and correct use of units
- how you have explained what the chart or diagrams show.

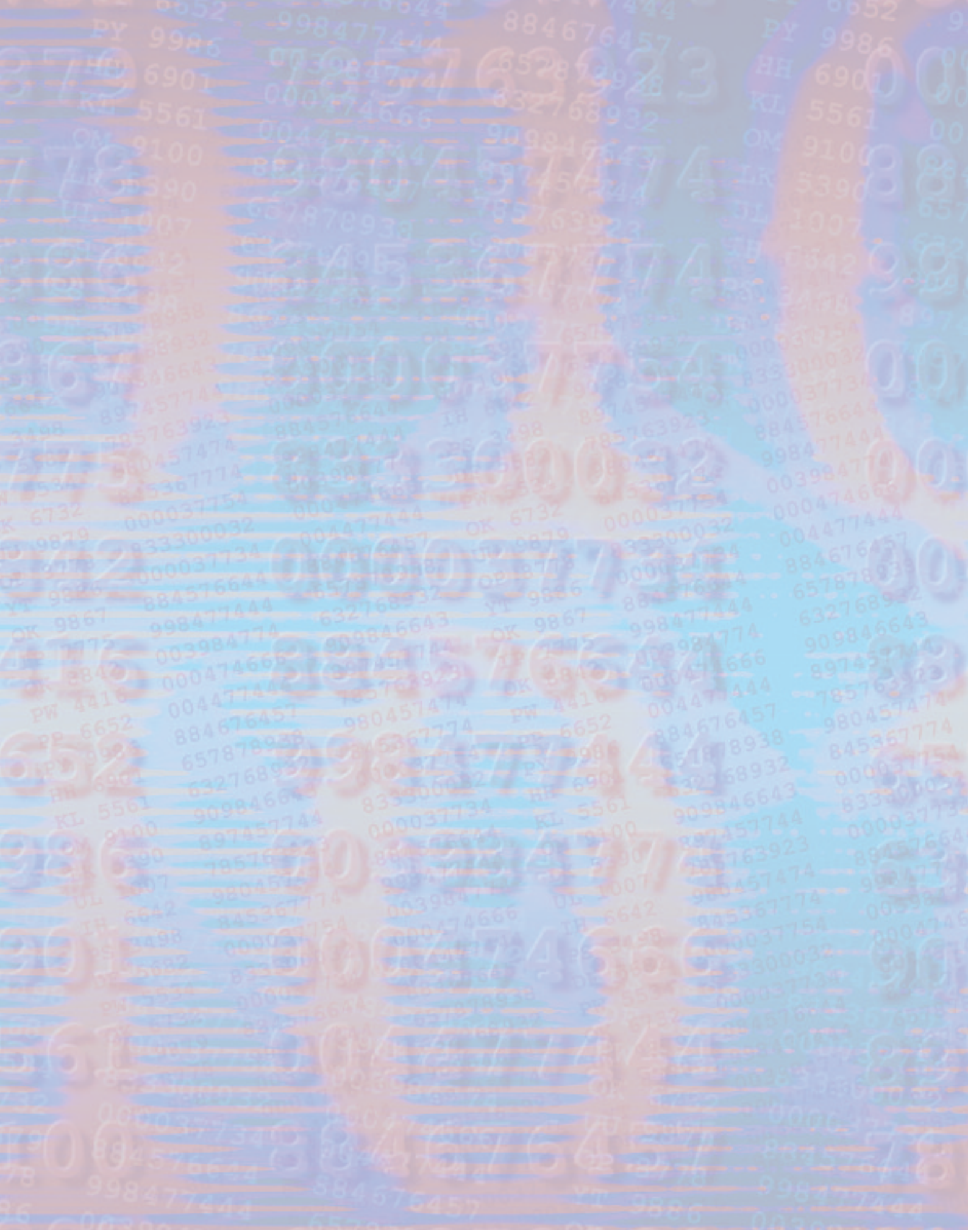
Additionally **at level 2** you will be expected to:

- describe the methods you have used
- explain the results of calculations in terms of how they meet the purpose of your chosen Activity.

**SPORT (USING ICT)
MORE ACTION-BASED ACTIVITY IDEAS**

NOTE: Remember, this Activity is about sport, application of number **and** using ICT.

1. Either, use a real sports club or an imaginary one and investigate how using ICT can be used to make data collection, data handling and data processing easier. You should look into using:
 - a data base of membership
 - a spreadsheet for income and expenditure
 - the computer to draw graphs, charts and tables.
2. Choose your favourite sport and investigate how you might use ICT to develop your interest in it. For example, you could store data (e.g. numbers of people playing the sport); record match statistics; analyse results and performance to work out averages etc.
3. Investigate how a computer can be used as part of training programmes for a particular sport. Look into ways in which fitness can be measured; collect data and analyse it; plot your findings in graphs and charts.
4. Look into the cost of a major sport. Find out how much income comes from sport; how many people attend games, meetings; events; how much the sportsmen and women earn; the cost of keeping the sport going. This will give you lots of data to analyse and present.
5. Survey people's attitude towards sport. You will need to word process a questionnaire with questions about different types of sport. When you have enough data, analyse it and present it in various graphical forms using a spreadsheet, graphical applications and word processing.
6. Collect data on the performance of a small group of athletes or sportsmen/women. Put the information into a computer and analyse the data collected. Work out information such as performance over time.
7. Carry out research into sport on television. Collect data on the number of sports and sport related programmes on TV. Use the computer to collect data (Internet), sort data (spreadsheet) and present data.



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