

COVER LESSON 1

Name:

In this unit you are:

- Looking at accuracy, reliability and bias of data
- Representing data using charts and graphs
- Creating and testing hypotheses
- Designing a questionnaire in order to collect data
- Creating a database
- Using database software to search for information

This work is based on the unit you are doing in ICT at the moment.

You may not have done enough of the unit to complete all of today's work.

Try your best and do as much as you can

Today's work: Collecting and analysing data

Your Year Head has asked you to plan an end-of-year trip for Year 7.

You will need to produce a survey in order to find out the most popular choice

Last year's Year 7 did their own survey when they planned their trip.

TASK ONE

Suggest what you could do, when collecting your own data, in order to ensure that the data you collect is:

ACCURATE

RELEVANT

NOT BIASED

Year 7 students preferred choice for an end of year trip

Figures in %	Boys	Girls
Alton Towers	35	24
Drayton Manor	22	20
London sights	12	25
Skydome	6	5
Disneyland Paris	25	26
Total	100	100

Year 7 students preferred choice of spending money for an end of year trip

Figures in %	Boys	Girls
£30+	10	35
£20 - £30	15	30
£15 - £20	20	23
£10 - £15	45	7
£0 - £10	10	5
Total	100	100

TASK TWO

The two tables at the bottom of page 1 show the results of last year's survey.

Write down three examples of information that you could get from this data

1. _____

2. _____

3. _____

Write down three hypotheses that you could use the data to prove

For example *"The Skydome will be the least popular choice for both boys and girls"*

1. _____

2. _____

3. _____

Why do you think the data is presented as percentage values rather than the actual number of pupils?

ICT ACTIVITY 1

1. Log on to the network
2. Open a new **Excel** Spreadsheet
3. Copy out the two tables at the top of the page (only the copy the rows containing the headings and the data)
4. Create charts to try and prove the hypotheses you wrote for task two. Make sure that the you choose the right type of chart and you label them properly
5. Open **Word**.
6. Paste the charts into Word and answer the following questions:
 - Why did you choose the chart type you did?
 - Does the chart prove or disprove your hypothesis?
 - Why?

Now Save your work

ICT ACTIVITY 2

1. If you finish, go to **Year 7 >> ICT Cover Work**
2. Double click on the file called **7.5Crossword**
3. Try and complete this! You can get hints for each clue if necessary.