FREE-STANDING MATHEMATICS UNITS

Foundation Level: Making Sense of Data

Student name	Student signature
Date due in	Date submitted

Assignment Circles

Your task is to get as accurate a value for π as you can.
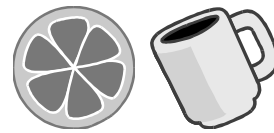Measure as many circular objects as you can.
Draw up a table of results
By hand, plot a line graph.
Draw a straight line of best fit through the origin.

Use the gradient of your graph to work out a value for π.
Check your value against the one given by your calculator.

Explain what you have found out from the graph.

You must:
- □ select the data you need
- □ present the data in a table
- □ choose the graph axes and ensure that they are scaled correctly
- □ plot the points accurately
- □ explain any intercepts with the graph axes
- □ explain the gradient
- □ explain the general shape of the graph.

Mark guidelines are given below. The maximum mark for each theme is 17.

To achieve:	5 marks	10 marks	15 marks	
Structuring & presenting your work	Acted on advice to complete the task	Worked independently	+ Work structured logically	
Using appropriate mathematics & working accurately	No major errors	+ Evidence of checking your work	+ Appropriate, efficient & concise working	
Interpreting mathematics	Understands what solution means in terms of the real situation	+ Describe in words the main features of the situation	+ Summarise and draw appropriate conclusions.	
Comments				
Signature of lecturer			Date	