

## ***Maths for Science Unit 1 (Level 5)***

### **LO1 Calculation**

Changing between regular and Scientific Notation	2	
Calculation using Scientific Notation	1	
Tolerance and Accuracy	1	
Reverse % calculation	2	
Compounding (Interest, bacterial numbers, etc) and Depreciation	1	
Using Conversions SI system (time, weight, volume, temperature)	2	9

### **LO2 Algebra**

Using Laws of Indices (powers and roots)	3	
Multiply out Double Brackets	2	
Factorise Quadratic ( $x^2$ )	2	
Difference of two squares	1	
Change of Subject involving +-* /, powers, roots	4	12

### **LO3 Statistics**

Calculation and interpret Arithmetic Mean and Standard Deviation	3	
Coefficient of Variation and comparison of data sets	2	
Drawing Scatter graph and estimating line of best fit graphically	2	
Calculate Equation of a Straight Line	2	
Predicting from line of best fit drawing	1	
Simple correlation by inspection (positive or negative, high or low)	1	11

## ***Statistics for Science Unit***

### **LO1 Statistics**

Types of Data and Collection Data	3	
Back to back Stem and Leaf Diagrams	2	
Pie Charts, Line Charts	2	
Grouping raw data into grouped frequency table and bar chart	2	
Drawing Scatter graph and estimating line of best fit revision	1	
Finding the equation of a straight line	2	
Find best fit line equation and make prediction from it		
Estimate Correlation (sign and high/low) or use calculator to find it	2	
Arithmetic Mean and Standard Deviation revision (ungrouped data)	1	
Median		
Range		
Quartile, IQR, SIQR	1	
Comparative Box Plots	2	
Reading from table of decibels	1	19

### **LO2 Probability**

Probability	2	
Venn Diagrams (2 subsets, one intersect)	3	
Combining Probability using tree diagrams with 2 levels 2 branches	6	11