

Unit 1a: Number			Year 9 Road Map				
In this unit you will learn about number. The aims are as follows:							
LG1: Knowledge		LG2: Application		LG3: Skills			
Level		Learning Goals/Outcomes/Content		Dr Frost Video	 R	 A	 G
Integers, decimals, place value, calculations, checking and rounding							
1	S	Use and order positive and negative numbers (integers)	86				
2	S	Order integers, decimals, use the symbols <, > and understand the ≠ symbol	86				
3	S	Add and subtract positive and negative numbers (integers)	155				
4	S	Recall all multiplication facts to 10 × 10, and use them to derive quickly the corresponding division facts	42				
5	S	Multiply or divide any number by powers of 10	45				
6	SC	Multiply and divide positive and negative numbers (integers)	156				
7	SC	Use brackets and the hierarchy of operations (not including powers)	115, 157j				
8	SCE	Round numbers to the nearest integer a given power of 10	37				
9	SCE	Check answers by rounding and using inverse operations	37				
10	S	Use decimal notation and place value	48, 69				
11	S	Identify the value of digits in a decimal or whole number	69a				
12	S	Compare and order decimal numbers using the symbols <, >	71				
13	S	Understand the ≠ symbol (not equal)					
14	S	Write decimal numbers of millions, e.g. 2 300 000 = 2.3 million;	70				
15	SCE	Add, subtract, multiply and divide decimals and whole numbers;	72, 123, 124, 125				
16	SCE	Multiply or divide by any number between 0 and 1;	123b, 125b				
17	SCE	Put digits in the correct place in a decimal calculation and use one calculation to find the answer to another;	71				
18	CE	Use the product rule for counting (i.e. if there are m ways of doing one task and for each of these, there are n ways of doing another task, then the total number of ways the two tasks can be done is m × n ways);	381				
19	SCE	Round to the nearest integer, to a given number of decimal places and to a given number of significant figures;	75, 122				
20	CE	Estimate answers to one- or two-step calculations, including use of rounding numbers and formal estimation to 1 significant figure: mainly whole numbers and then decimals.	188				
Student’s comments and questions							