

Unit 1c: 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 Videos	 R	 A	 G
1	S	Recognise odd and even numbers;	5a			
2	SC	Identify factors, multiples and prime numbers;	97d			
3	SC	Recognise two-digit prime numbers;	97b			
4	SC	List all factors of a number and list multiples systematically;	53c			
5	SCE	Identify factors, multiples and prime numbers;	97, 53, 52			
6	SCE	Find the prime factor decomposition of positive integers – write as a product using index notation;	161d			
7	SCE	Find common factors and common multiples of two numbers;	95a			
8	SCE	Find the LCM and HCF of two numbers, by listing, Venn diagrams and using prime factors – include finding LCM and HCF given the prime factorisation of two numbers;	96e 96f			
9	CE	Solve problems using HCF and LCM, and prime numbers;	96c 162c			
10	CE	Understand that the prime factor decomposition of a positive integer is unique, whichever factor pair you start with, and that every number can be written as a product of prime factors.	161c			
11	SCE	Convert large and small numbers into standard form and vice versa;	301b 302b			
12	CE	Add and subtract numbers in standard form;	303a			
13	CE	Multiply and divide numbers in standard form;	304a			
14	CE	Interpret a calculator display using standard form and know how to enter numbers in standard form;	304h 304i			
15	CE	Understand surd notation, e.g. calculator gives answer to $\sqrt{8}$ as $4\sqrt{2}$;	334a			
16	E	Simplify surd expressions involving squares (e.g. $\sqrt{12} = \sqrt{4 \times 3} = \sqrt{4} \times \sqrt{3} = 2\sqrt{3}$).	334b 334c			

Student's comments and questions