



## Science handbook...Curriculum key stage 3

### Introduction:

Key stage 3 students follow a commercially produced course, QCA compliant called 'Framework' published by Oxford University press, purchased may 2004 and introduced across key stage 3 September 2004. Dedicated textbooks (120 per year) for this course are used. The department intends to add to the teacher resource packs, and schemes of work over the next three years. Existing schemes of work and additional resources for extension work, literacy, numeracy and KS3 National Strategy Objectives as well as material for pupils with SEN and EAL issues allow for a comprehensive delivery of the National curriculum within the department. Differentiation for pupils with different abilities, prior attainment, behaviour and language skills is made possible using these resources. Differentiated printed homework tasks are also available to staff. The current KS3 course also places a strong emphasis on the inclusion of ICT, starters and plenaries within science lessons. The department has adequate materials for investigations where appropriate.

### Year 7 pacing and timings

In year 7 the pupils study 12 modules all of which are examined internally. There are 115 lessons prior to July 10<sup>th</sup> allowing on average up to 9 lessons per module ( $12 \times 9 = 108$ )

### Year 8 pacing and timings

In year 8 the pupils study 12 modules all of which are examined internally. There are 96 lessons prior to June 1<sup>st</sup> allowing on average up to 8 lessons per module ( $12 \times 8 = 96$ ). Year 8 pupils will begin their year 9 modules following May Half term. This will allow the teaching of two year 9 modules in the halt term following June 1<sup>st</sup>. there are 18 lessons prior to July 10<sup>th</sup> for this purpose.

### Year 9 pacing and timings

In year 9 the pupils study the remaining 10 modules, all of which are examined internally. There are 80 lessons prior to May 1<sup>st</sup> (SATs testing) allowing on

average up to 8 lessons per module (10 x 8). Pupils are then placed on a revision programme for 3 weeks prior to SATs examinations covering material from their year 8 & 9 modules. Post SATs, pupils will begin their year 10 studies and gain experience in coursework issues.

### Assessment and progression:

During years 7, 8 & 9 pupils are tested at the end of each module (summative) and with a terminal examination. Levels generated by both module tests and final examination will be stored electronically by teaching staff and held in a shared area. These levels will track progression, attainment and aid intervention for those pupils who are attaining less well than predicted or those who are performing sub level 5. This data will be available for parents, staff, pupils and SMT, enabling the school to be aware of a minimum average attained level and progression.

### KS 3 programme of study:

YEAR	UNIT	TOPICS	ORDER	TIMINGS	DATES
<i>Key stage 3 pacing and timings</i>					
YEAR 7		<b>INTRODUCTION (SAFETY)</b>	1	10	SEPT 06
	7A	CELLS	2	9	
	7B	REPRODUCTION	3	9	
	7G	PARTICLE MODEL S.L & G	4	9	
	7H	SOLUTIONS	5	9	DEC 06
	7I	ENERGY RESOURCES	6	9	JAN 07
	7J	ELECTICAL CIRCUITS	7	9	
	7D	VARIATION & CLASSIFICATION	8	9	
	7C	ENVIRONMENT & FEEDING	9	9	MARCH 07
	7E	ACIDS & ALKALIS	10	9	MAY 07
	7F	SIMPLE CHEMICAL REACTIONS	11	9	
	7K	FORCES AND THEIR EFFECTS	12	9	
	7L	SOLAR SYSTEM	13	9	JULY 07
<i>Termination examination</i>					
YEAR 8	8A	FOOD AND DIGESTION	1	8	SEPT 06
	8B	RESPIRATION	2	8	
	8E	ATOMS AND ELEMENTS	3	8	
	8F	COMPOUNDS AND MIXTURES	4	8	
	8K	LIGHT	5	8	DEC 06
	8L	SOUND AND HEARING	6	8	JAN 06
	8D	ECOLOGICAL RELATIONSHIPS	7	8	
	8C	MICROBES AND DISEASE	8	8	
	8G	ROCKS AND WEATHERING	9	8	
	8H	THE ROCK CYCLE	10	8	
	8I	HEATING AND COOLING	11	8	
	8J	MAGNETS AND ELECTROMAGNETS	12	8	
	9C	PLANTS AND PHOTOSYNTHESIS	13	8	

Year 9	9D	PLANTS FOR FOOD	14	8	JULY 07
		<i>Terminal examination</i>			
	9A	INHERITANCE AND SELCTION	1	8	SEPT 06
	9B	FIT AND HEALTHY	2	8	
	9E	REACTIONS OF METALS	3	8	
	9F	PATTERNS OF REACTIVITY	4	8	
	9L	PRESUURES AND MOMENTS	5	8	DEC 06
	9K	SPEEDING UP	6	8	JAN 06
	9G	ENVIRONMENTAL CHEMISTRY	7	8	
	9H	USING CHEMISTRY	8	8	
	9I	ENERGY AND ELECTRICITY	9	8	
	9J	GRAVITY AND SPACE	10	8	
		BIOLOGY KS3 REVISION		4	MARCH 07
		PHYSICS KS3 REVISION		4	
	CHEMISTRY KS3 REVISION		4	MAY 06	

Notes: There are on average 12 lessons for each module in years 7 & 8 and 10 lessons for year 9. An 'end of module' test should be given and recorded in the science monitoring folder (KS3); located within the staff shared area.