

Clydebank High School

Level C Programme of Work

(Sept 2005)

- Main Resource**
- Class Teacher
 - Level C Textbook 5 - 14 mathematics (TeeJay Publishers)
 - Extension Materials (MIA 1+ and 2+)
- Methodology**
- Approximately one half of each lesson should be teacher exposition, demonstration, oral practice (i.e. question and answer, recall and more importantly questions stimulating thinking and response by pupils). Demonstrations on board by pupils.
 - As a rule of thumb, no more than one half of any lesson should be class practice.
- Time Allocation**
- The time allocation for each topic should be adhered to as closely as possible (some flexibility built in)
 - Assessments for ALL classes are required to be carried out within the 1 or 2 periods of the stated date in order that comparisons, setting, reporting and movement between classes of pupils can be carried out efficiently throughout the session.
 - Dates estimated will vary slightly from session to session, precise dates being confirmed at departmental meetings.

Homework

- Homework is provided through Teejay Publishing booklet "Level C Homework". Most exercises in the textbook have a linked homework exercise. These should be used for consolidation of class work or providing those pupils who have reason to be absent from class lessons a means of covering missed work.
- The booklets provide an excellent resource for revision at home prior to class tests and a means for parents to keep track of class work.
- Most homework exercises should be completed by all pupils during the course of the session.

Checking H'Work

Teachers need not mark all homework, but **should** ensure that :-

- (a) a quick check be made that h'work is recorded in diary
- (b) a quick check to establish it has been attempted
- (c) homework is corrected by pupil or neighbour each day
- (d) difficulties arising are addressed promptly by teacher
- (e) regular checks are made of setting/neatness/accuracy.

Assessments

- (i) Markers should stick strictly to marking schemes (if adjustment is required, marker should consult Head of Department).
- (ii) For consistency of marking, generally one member of staff should be allocated to each assessment (Where two are allocated, each should mark designated questions).
- (iii) Marks should be recorded as an overall percentage on the front of the assessment jotter. These marks are then forwarded to the member of staff responsible for updating computer records to be recorded after each assessment.

- Mental Calculations**
- Mental Calculations are now part of the 5-14 national Assessments and it is therefore necessary to carry out mental calculation practice on a regular basis with all S1/2 classes. In order to satisfy this requirement teachers should spend 5 mins at the a start or end of almost every lesson on mental calculations or alternately a 20 mins block each week. (Practice sheets are provided to support each mental test)
 - 2 Mental Tests should be officially used during each "block" of work as specified.
 - Parts A and B of any National Test have 6 mental questions in each.
 - All mental test practices and National Tests should be carried out strictly as follows :-
 - (a) No written work should be allowed.
 - (b) Each question should be read **twice only** with a slight gap.
 - (c) Pupils given only 10 seconds to answer each question.
 - (d) In class mental assessments, answers should be entered into a mental test jotter which the teacher or neighbour should mark during the period. Teacher should then highlight problems and attempt to clear them up.
 - (e) Practice tests are of a cumulative nature as pupils progress throughout the course. They should be at the level pupils are presently working at (with the exception of the 2 introductory tests set at the previous level).

- National Tests**
- Pupils who embark on our Level C course in August should hope to complete it by Spring of the following year. Pupils will then be prepared to sit a national Test, using a variety of revision materials.
 - Pupils will only be presented for national Test when the teacher considers that they are ready and well prepared.
 - National Testing at level C to be carried out prior to any change of timetable (mid - May).

Topic	Periods	Ch	Pgs	Exer	Comments	H/W	Ext ⁿ /Assessment	End Date
Revision of Level B	5-6	0	1-7		Use for first 5-6 periods in August Re-set CLASSES according to level C Diag scores	No -	Diagnostic Assessment Level B for most (+ level A if struggling)	Set by 1st week Sept
BLOCK 1 Whole Numbers	1-2 2 1 + 1	1	8-10 11-14 15-16	1 2	2 or 3 "mini-lessons" on Words → Digits and vice-versa, ordering numbers, 200 "before" or after 2300 etc, reading scales Add/Subtract 1 digit (in some cases two) to /from 2 and 3 digit numbers Topic in a Nutshell	Yes Yes	Puzzle on page 14 Worksheet 1·1 Assessment 1 (Chapter 1)	Mid Sept
BLOCK 2 Symmetry	1 2 1-2 1 half 1 + 1	2 }	17 17-22 18 18 18 23-24 24 25	(1) 1 (1) (1) (1) 2 (2)	Worksheet 2·1 - mirrors/scissors required Recognising and drawing lines of symmetry Worksheet 2·2 Worksheet 2·3 Worksheet 2·4 (in conjunction with page 22) Completing a symmetrical shape Worksheet 2·5 Topic in a Nutshell	Yes Yes	During this block, 2 of the TeeJay Mental Maths topics should be attempted (at level B) and recorded Assessment 2 (Chapter 2)	End Sept

Topic	Periods	Ch	Pgs	Exer	Comments	H/W	Ext ⁿ /Assessment	End Date	
BLOCK 3									
Money	1	3	26-28	1	"Exchange", paying for goods and "change"	Yes	<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> During this block, Number 1 of the TeeJay Mental Maths topics should be attempted (at level C) and recorded </div>		
	2		28-30	2	Add/Subtract Money + problems	Yes			
	1		31	(2)	Worksheet 3·1				
	1		31-32	3	Money, Bills and problems	Yes			
	1 + 1		33-34		Topic in a Nutshell				
							Assessment 3 (Chapter 3)	Oct Break	
BLOCK 4									
Time	half	4	35-36	1	Reading time from Analogue clock	Yes	<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> During this block, Number 2 of the TeeJay Mental Maths topics should be attempted (at level C) and recorded </div>		
	1		}	37-38	2	Analogue and Digital Clock			Yes
				31	(2)	Worksheet 4·1			
	2			39-42	3	a.m. and p.m. and Timetables etc.			Yes
	1-2			43-45	4	Small Time Intervals			Yes
	1			46	5	Calendars (+ Worksheet 4·2)			Yes
1-2 + 1		47-49		Topic in a Nutshell					
							Assessment 4 (Chapter 4)	Early Nov	

Topic	Periods	Ch	Pgs	Exer	Comments	H/W	Ext ⁿ /Assessment	End Date
BLOCK 5								
Whole Numbers 2	1-2	5	50-53	1	Multiplication by 1 digit, doubling & trebling	Yes	<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> During this block, Numbers 3 & 4 of the TeeJay Mental Maths topics should be attempted (at level C) and recorded </div>	
	1-2		54-56	2	Division by 1 digit and halving	Yes		
	1-2		57	3	Multiplication by 10	Yes		
			58-89	4	Division by 10 & problems	Yes		
	1		60-61	5	Rounding to nearest 10	Yes		
	2		62	6	Estimating by rounding	Yes		
	2	63-65	6	Multiplication/Division using a calculator	Yes			
	1-2 + 1		66-68		Topic in a Nutshell		Assessment 5 (Chapter 5)	End Nov

Topic	Periods	Ch	Pgs	Exer	Comments	H/W	Ext ⁿ /Assessment	End Date
BLOCK 6 (2 topics)								
Statistics	1-2	6	69-71	1	Tally Marks and Tables	Yes		
	1-2		72-73	2	Pictographs	Yes		
			74-76	3	Bar Graphs	Yes		
	1		77-78	4	Read and Interpret tables	Yes		
					Do NOT do Topic in a Nutshell at this point		<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> During this block, Numbers 5 & 6 of the TeeJay Mental Maths topics should be attempted (at level C) and recorded </div>	
Number Machines	1	7	81-84	1	Evaluating Number Machines	Yes	Page 87 - a bit of Algebra	
	1		85-86	2	Combining Number Machines	Yes		
	1-2 + 1		79-80		Topic in a Nutshell Ch 6			
			88		Topic in a Nutshell Ch 7			
							Assessment 6 (Chapter 6 & 7)	Before Xmas

Topic	Periods	Ch	Pgs	Exer	Comments	H/W	Ext ⁿ /Assessment	End Date
BLOCK 7 (2 topics)								
Two Dimensions	1	8	89-91	1	Two Dimensional shapes	Yes		
	1		91	(2)	Worksheet 8·1	Yes		
	1-2		91-93	2	Tiling	Yes		
	1		94-96	3	Drawing various circles -coins and circles needed	Yes		
	2		97-98	4	Using Compasses (compasses/Rulers) - to display			
Do NOT do Topic in a Nutshell at this point						<div style="border: 1px solid black; padding: 5px; background-color: #ffffcc;"> During this block, Numbers 7 & 8 of the TeeJay Mental Maths topics should be attempted (at level C) and recorded </div>		
Angles	1	9	101-103	1	The Right Angle (+ Worksheet 9·1)	Yes	Assessment 7 (Chapter 8 & 9)	End of Jan
	1-2		104-105	2	Quarter Turn, Half Turn, Complete Turn	Yes		
			106-107	3	Types of Angle (Acute, Right, Obtuse, Straight)	Yes		
	1 + 1	99-100 108		Topic in a Nutshell Ch 8 Topic in a Nutshell Ch 9				

Topic	Periods	Ch	Pgs	Exer	Comments	H/W	Ext ⁿ /Assessment	End Date
BLOCK 8 (2 topics)								
Fractions	2-3	10	109-112	1	What is a Fraction Shading in Fractions (+ Worksheet 10·1)	Yes		
	1-2		113-116	2	Equivalent Fractions and Cancelling	Yes		
	1		117-118	3	Fraction of a Quantity (unit numerator)	Yes		
					Do NOT do Topic in a Nutshell at this point		<div style="border: 1px solid black; padding: 5px; width: fit-content;"> During this block, Numbers 9 & 10 of the TeeJay Mental Maths topics should be attempted (at level C) and recorded </div>	
Position & Movement	2	11	120-124	1	Placement & Movement	Yes		
	1-2		124-126	2	Features of a Journey (+ Worksheet 11·1)	Yes		
	1-2		127-129	3	Compass Points (+ Worksheet 11·2)	Yes		
	1		130-132	4	Coordinate Grids	Yes	(Coordinates for Fun) 133-134 (+ Worksheet 11·3)	
	1-2 + 1	{	119 135-136		Topic in a Nutshell Ch 10 Topic in a Nutshell Ch 11		Assessment 8 (Chapter 10 & 11)	End of Feb

Topic	Periods	Ch	Pgs	Exer	Comments	H/W	Ext ⁿ /Assessment	End Date
BLOCK 10 (2 topics)								
Three Dimensions	2-3	14	154-156	1	3D Shapes (+ Worksheets 14·1/2/3)	Yes	Scissors needed	
	1-2		157-158	2	Drawing on Triangular Dotty Paper	Yes	(Triangular Dotty Paper needed)	
					Do NOT do Topic in a Nutshell at this point		<div style="border: 1px solid black; padding: 5px; color: red; font-size: small;"> During this block, Numbers 13 & 14 of the TeeJay Mental Maths topics should be attempted (at level C) and recorded </div>	
Volume and Weight	1	15	160-161	1	Explanation of Volume	Yes		
	1		162-164	2	The Litre & Reading Scales	Yes		
	1		164-166	3	The Cubic Centimetre	Yes		
	1		167	4	Comparing Weights	Yes		
	1-2		168-170	5	Kilograms and Grams	Yes		
	1 + 1		{	159 171-172		Topic in a Nutshell Ch 14 Topic in a Nutshell Ch 15		Assessment 10 (Chapter 14 & 15)

FINISH level C COURSE by End of April

National Testing

**Prepare Pupils for National Test Level C,
using Revision Materials page 173-179,
Chapter Zero from Book D
Revision for actual downloaded test
and possibly Practice Test
(10-14 periods)**

TEST towards END of MAY