# The Primary Tools Decimal System: Mathematics Assessment Process



The Primary Tools Decimal Assessment System has been designed first and foremost with children's needs at heart. The mathematics system is based on the **next steps** criteria found in the National Curriculum released in 2014. Key **next steps** have been selected; **next steps** not included can be found at the end of this document for your reference.

## For Pupils and Parents:

It aims to inform pupils of the **next steps** needed in order to progress learning in their mathematics. It is recommended that these assessment sheets are used alongside the Next Steps Bookmarks found on the PrimaryTools.co.uk website.

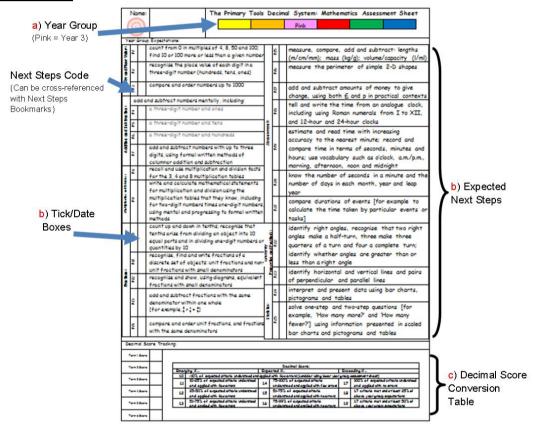
#### For Teachers:

The system is also designed to be easily picked up by teachers. Recommended process is detailed below, although the final rules can be decided within your school to meet your needs.

### For School Leaders:

The system also creates a Decimal Score that can be used for tracking and informing planning for the needs of your pupils. It is recommended that the free tracking system is used from the PrimaryTools.co.uk website.

## The Decimal System Process:



- 1) Use the correct assessment sheet for the year group (a):
  - Yellow is Year 1, Orange is Year 2 and so on with Blue being Year 6
  - Depending on the ability of the pupil, you may judge it appropriate to use a lower or higher year group assessment sheet.
- 2) Tick/date the Expected **Next Steps** that have been met (b):
  - As a general rule, the pupil must show at least 80% confidence ("few errors") for it to be ticked/dated although this depends on the next step itself. Higher performing pupils should have no errors.
- 3) Turn the number of ticks/dated steps into a decimal score (c):
  - The first number represents the year group, with the second number showing the finer stage within that year group.
  - For example: A score of 3.0 to 3.3 shows the pupil is Emerging against the Year 3 Expectations. 3.4 to 3.6 shows the pupil is Expected against the Year 3 Expectations. 3.7 and higher means they are Exceeding.
  - Generally speaking, a pupil should not be moved to a higher year group's sheet but should deepen and extend (through using and applying) on the current year group's next steps. You may want to apply this to the exceeding criteria rather than move up a year group.
  - This can then be input into the tracking system freely available from the PrimaryTools.co.uk website.

١	Var	ne:				The Pr	imary To	ols C	)ec	ecimal System: Mathematics Assessment Sheet		
(	6	<b>3</b>								Pink		
 10	or 6	ols.co.uk	Expectation	nns:								
	P1	Toup	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000					er	P15	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/m		
Addition and Subtraction: Number and Place \	P2								P16	measure the perimeter of simple 2-D shapes		
	P3						1000		P17	add and subtract amounts of money to give		
	add and subtract numbers mentally, including:						ıding:		H	change, using both £ and p in practical contex		
	P4		a three-digit number and ones						P18			
	P5		a three-digit number and tens a three-digit number and hundreds add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction recall and use multiplication and division facts					ent:		and 12-hour and 24-hour clocks		
	94						S	Measurement:		estimate and read time with increasing accuracy to the nearest minute; record and		
500	Ь7						ds of		P19	compare time in terms of seconds, minutes an hours; use vocabulary such as o'clock, a.m./p.m morning, afternoon, noon and midnight		
	P8								_	know the number of seconds in a minute and t		
Multiplication and Division:	6d		for the 3, 4 and 8 multiplication tables write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers using mental and progressing to formal written methods			s,	P21 P20	number of days in each month, year and leap year compare durations of events [for example to				
Fractions:	P10		count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ ]				ct into 10 it numbers o	metry	<b>-</b>	identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or		
	P11						ions and no	u-	200	less than a right angle identify horizontal and vertical lines and pairs		
	P12								P23	of perpendicular and parallel lines		
	P13						ne same	Statistics:	P24	solve one-step and two-step questions [for		
	P14		compare and order unit fractions, and fractions with the same denominators						P25	fewer?'] using information presented in scaled bar charts and pictograms and tables		
)e	cim	al Sc	ore Trackin	ng:								
Т	erm 1	Score										
T	erm 2	Score		Emerging if				Expec	ted i	Decimal Score: if Exceeding if		
Т	erm 3	Score		3.0 <10% of expected criteria understood and app				with few errors (consider using lower year group assessment sheet)  75-100% of expected criteria understood and applied with few errors  3.7  100% of expected criteria understood and applied with no errors				
Term 4 Score				3.2 25-50% of expected criteria understood and applied with few errors			3.5	51-7 und	1-75% of expected criteria 3.8 1.7 criteria met and at least 25% of above year group expectations 1.7 criteria met and at least 25% of above year group expectations 1.7 criteria met and at least 50% of above year group expectations			
T	erm 5	Score		3.3		with few error		3.6		nderstood and applied with no errors  3.9 above year group expectations		

Term 6 Score