

LEARNING LADDERS

MATHS

YEARS 2 & 3



NAME

CLASS



LEARNING LADDERS

Ladder Title

Page

Times Tables	1
Addition	2
Subtraction	3
Multiplication	4
Division	5
Decimals	6
Fractions	7
Problem Solving	8
Properties of Number	10
Measures	11
Time	13
Perimeter and Area	15
Statistics	16
Shape	17
Position and Direction	19
Place Value	20





MATHS LADDER ADDITION 0 I can add using both £ and p in practical contexts. COMPLETE COMPLETE COMPLETE Rung 8 I can add 2 digit numbers and 3 digit numbers using column addition. COMPLETE COMPLETE COMPLETE Rung 7 I can estimate the answer to an addition calculation or use the inverse to check it is correct. Rung 6 COMPLETE COMPLETE COMPLETE I can add 2 digit numbers and 3 digit numbers using expanded column addition. Rung 5 COMPLETE COMPLETE COMPLETE I can partition 2 and 3 digit numbers and add vertically using base 10 or practical resources without crossing boundaries. Rung 4 COMPLETE COMPLETE COMPLETE I can add 10 or 100 to any number and can add in multiples of 10. Rung 3 COMPLETE COMPLETE COMPLETE I can partition a number to add using number bonds to 10 e.g. 8 + 7 is 8 + 2 + 5. Rung 2 COMPLETE COMPLETE COMPLETE I can add in tens and ones using an unstructured number line. Rung 1 COMPLETE COMPLETE COMPLETE

SUBTRACTION

I can subtract money using both £ and p to give change in practical contexts.
Rung 6 COMPLETE COMPLETE
I can subtract 2 and 3 digit numbers using column subtraction with decomposing.
Rung 5 COMPLETE COMPLETE COMPLETE
I can estimate the answer to a subtraction calculation or use the inverse to check it is correct.
Rung 4 COMPLETE COMPLETE COMPLETE
l can partition a number and subtract using column subtraction without decomposing (2 and 3 digit numbers).
Rung 3 COMPLETE COMPLETE COMPLETE
I can use related facts to subtract multiples of 10 and 100 e.g. 6 - 4 = 2 60 - 40 = 20.
Rung 2 COMPLETE COMPLETE
I can subtract more efficiently using a number line using jumps of multiples of 10 with numbers up to 3 digits.
Rung 1 COMPLETE COMPLETE

MULTIPLICATION

ŀ	L can partition		or into 10	ic and on	oc to multiply	
	i can partitior	dist)	ributive l	aw).	es to multiply	
	Rung 5	COMPLETE	COMPLETE	COMPLETE		
	l can use rela	ated facts 2x3	s to multip =6 2x30=	oly multip ⁼60.	les of 10 e.g.	
	Rung 4	COMPLETE	COMPLETE	COMPLETE		
	l can explor multiply (distri 7 into 2 a	e the effe butive lay and 5 the	ect of par w) e.g. ex n calculat	titioning ploring 7 ting 2x8	a number to x8 by splitting then 5x8.	g
	Kung 3	COMPLETE	COMPLETE	COMPLETE		
	I know that i	multiplica (co	tion can mmutativ	be done /e).	in any order	
	Rung 2	COMPLETE	COMPLETE	COMPLETE		-1
	l can mult represent	iply using ations ar	g concret rays and	e objects repeated	s, pictorial I addition.	
	Rung 1	COMPLETE	COMPLETE	COMPLETE		

DIVISION



l can divide 2	digit nun the t	nbers by ables I ki	another now.	number using
Rung 3	COMPLETE	COMPLETE	COMPLETE	
I know that di	vision of be dor	one num ne in any	ber by ar order.	nother can not
Rung 2	COMPLETE	COMPLETE	COMPLETE	
l can divi representatio	de using ns and a	concrete rrays and	e objects, repeate	, pictorial d subtraction.
Rung 1	COMPLETE	COMPLETE	COMPLETE	

DECIMALS



FRACTIONS

l can recog	nise and equiv	show usi alent frac	ng diagra tions.	ams, simple
Rung 9	COMPLETE	COMPLETE	COMPLETE	
l can com support o	oare and of fractior	order un boards	it fractior and num	ns with the ber lines.
Rung 8	COMPLETE	COMPLETE	COMPLETE	
l can add denominator	and subt and reco 2/5	ract fracti gnise a v 5 + 1/5 = 3	ions with vhole as s/5.	the same a fraction e.g.
Rung 7	COMPLETE	COMPLETE	COMPLETE	
l can comp	are and d de	order frac enominate	tions wit or.	h the same
Rung 6	COMPLETE	COMPLETE	COMPLETE	
I can work fractions	out fracti e.g. 1/2 1/4	ons of ar 4 3/4 1/5	nounts fo of a set o	or common of objects.
Rulig 5	COMPLETE	COMPLETE	COMPLETE	
l can recognis	e fraction	ns of shaj	oes (unit	and non-unit).
Rung 4	COMPLETE	COMPLETE	COMPLETE	
I can count in that fractions	halves ar are num	nd quarte bers betv	rs up to 1 ween wh	IO recognising ole numbers.
Kung S	COMPLETE	COMPLETE	COMPLETÉ	
l can reco	ognise th	e equival	ence of 2	2/4 to 1/2.
Rung 2	COMPLETE	COMPLETE	COMPLETE	
l can recogi 1/4, 2/4, and	nise, find, 3/4 of a l	name ar ength, sh quantity.	nd write f ape, set	ractions 1/3, of objects or
Rung 1	COMPLETE	COMPLETE	COMPLETE	

MATHS LADDER	
PROBLEM SOLVING	
I can solve simple correspondence problems	
'4 hats, 3 coats, how many different outfits?'	
Rung 10 COMPLETE COMPLETE	
I can solve 1 step word problems involving multiplication and division.	
Rung 9 COMPLETE COMPLETE COMPLETE	
I can solve 1 step word problems involving addition and subtraction (including numbers beyond 100).	
Rung 8 COMPLETE COMPLETE COMPLETE	
I can solve missing number problems for addition, subtraction, multiplication and division with numbers up to 100 using my knowledge of number facts and the relationship between operations.	
Rung 7 COMPLETE COMPLETE COMPLETE	
I can solve money problems involving addition and finding the change (both £ and pence).	
Rung 6 COMPLETE COMPLETE COMPLETE	
I can solve simple money problems involving addition and finding the change (£ or pence).	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE COMPLETE	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE COMPLETE I can use place value and number facts to solve problems.	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE COMPLETE I can solve multiplication and division problems using pictures and diagrams.	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE COMPLETE I can solve multiplication and division problems using pictures and diagrams. Rung 3 COMPLETE COMPLETE COMPLETE	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE COMPLETE I can solve multiplication and division problems using pictures and diagrams. Rung 3 COMPLETE COMPLETE I can solve simple word problems involving addition and subtraction with numbers up to 50.	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE I can solve multiplication and division problems using pictures and diagrams. Rung 3 COMPLETE COMPLETE I can solve simple word problems involving addition and subtraction with numbers up to 50. Rung 2 COMPLETE COMPLETE	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE I can solve multiplication and division problems using pictures and diagrams. Rung 3 COMPLETE COMPLETE I can solve simple word problems involving addition and subtraction with numbers up to 50. Rung 2 COMPLETE COMPLETE	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE I can solve multiplication and division problems using pictures and diagrams. Rung 3 COMPLETE COMPLETE I can solve simple word problems involving addition and subtraction with numbers up to 50. Rung 2 COMPLETE COMPLETE I can solve missing number problems for addition and subtraction with numbers up to 20.	
I can solve simple money problems involving addition and finding the change (£ or pence). Rung 5 COMPLETE COMPLETE I can use place value and number facts to solve problems. Rung 4 COMPLETE COMPLETE I can solve multiplication and division problems using pictures and diagrams. Rung 3 COMPLETE COMPLETE I can solve simple word problems involving addition and subtraction with numbers up to 50. Rung 2 COMPLETE COMPLETE I can solve missing number problems for addition and subtraction with numbers up to 20. Rung 1 COMPLETE	

PROBLEM SOLVING



PROPERTIES OF NUMBER



I can recognise patterns in some multiplication tables (2, 5, 10, 4 and 8).						
Rung 1	COMPLETE	COMPLETE	COMPLETE			

	MATHS LADDER	=
	MEASURES	
	I can solve problems involving measures including	
	simple problems for scale e.g. twice as high.	
	Rung 10 COMPLETE COMPLETE COMPLETE	
	I can add and subtract amounts of money to give	
	Rung 9 COMPLETE COMPLETE COMPLETE	
	I can compare, add and subtract measures.	
	I can read measuring instruments with increasing	
	accuracy.	
	Rung 7 COMPLETE COMPLETE COMPLETE	
	I can compare and order measures and record <> and =.	
	Rung 6 COMPLETE COMPLETE COMPLETE	
	I can find different combinations of coins that equal	
	the same amounts.	
	Rung 5 COMPLETE COMPLETE	
	I can combine amounts to make a particular value e.g. make 3p using a 2p and 1p.	
	Rung 4 COMPLETE COMPLETE COMPLETE	
	I can recognise and use symbols for \mathfrak{L} and p.	
	Rung 3 COMPLETE COMPLETE	
	I can choose appropriate units of measure to estimate	
	Rung 2 COMPLETE COMPLETE COMPLETE	
	l can measure using appropriate equipment e.g. ruler	
	weighing scales, measuring jug.	
	Rung 1 COMPLETE COMPLETE	
	Page 11	
— , I	I I	-
1		1

MEASURES



	MA	ATHS LADD	ER	
		TIME		
l can read t cc	he time o ompare to	n a digita an analo	al clock (1 ogue cloo	2 hour) and ck.
Rung 10	COMPLETE	COMPLETE	COMPLETE	
l can cal	culate an	d compa	re time d	urations.
Rung 9	COMPLETE	COMPLETE	COMPLETE	
l can read and	d write the an ar	e time to nalogue c	the near lock.	est minute on
Rung 8	COMPLETE	COMPLETE	COMPLETE	
I can record	time in se re lengths	econds, m s of time (ninutes a e.g. whic	nd hours and h is longer).
kung /	COMPLETE	COMPLETE	COMPLETE	
l understand	and use v pm, noc	ocabular	ry such a idnight.	s o'clock, am,
Rung 6	COMPLETE	COMPLETE	COMPLETE	
can use the of seconds in	vocabular 1 a minute 1	ry of time e, days in eap year	and kno each mc	w the number onth, year and
Rung 5	COMPLETE	COMPLETE	COMPLETE	
can tell and hands o	write the n a clock	time to 5 face to s	minutes how thes	and draw the se times.
Rung 4	COMPLETE	COMPLETE	COMPLETE	
can read and	d write the quarter pa	e time on ast and q	an analo uarter to	ogue clock for
Rung 3	COMPLETE	COMPLETE	COMPLETE	
l can com	pare and	sequenc	e interva	Is of time.
Rung 2	COMPLETE	COMPLETE	COMPLETE	
l know how	many hou many mi	urs there inutes in	are in a c an hour.	day and how
Rung 1	COMPLETE	COMPLETE	COMPLETE	
		Page 13		

-

TIME



I can read the time on a 24 hour digital clock.						
Rung 11	COMPLETE	COMPLETE	COMPLETE			

PERIMETER AND AREA



	MATHS LADI	DER	
	STATISTI	CS	
l can interpret d	ata presented	in a range of gra	aphical
representatio	ons with a grea	ater range of sca	iles.
Rung 10 CO	MPLETE COMPLETE	COMPLETE	
l can solve 2 s presented in	tep problems charts and gra more/fewo	using the inform aphs e.g. how m er?	ation any
Rung 9 CO	MPLETE COMPLETE	COMPLETE	
l can solve one prese	step problems nted in charts	s using the inform and graphs.	nation
Rung 8 CO	MPLETE COMPLETE	COMPLETE	
l can present dat	a in charts and a scale of 2, 5	d graphs includir and 10.	ng using
Rung 7 CO	MPLETE COMPLETE	COMPLETE	
l can interpret read	data in charts ing a scale of	and graphs inclu 2, 5 and 10.	uding
Rung 6 CO	MPLETE COMPLETE	COMPLETE	
l can answer qu simple bar charts	estions by consections by consections by consections by consections and the section of the secti	mparing informa as the most? Ho er?	tion in w much
Rung 5 CO	MPLETE COMPLETE	COMPLETE	
l can interpret a	nd construct s block diagra	simple pictogran ams.	ns and
Rung 4 CO	MPLETE COMPLETE	COMPLETE	
l can interpret a	and construct s tables.	simple tally char	ts and
Rung 3 CO	MPLETE COMPLETE	COMPLETE	
I can answer sin looking at pictog	nple questions rams and bloc	s about quantitie k charts (scale o	es from f 1 or 2).
Rung 2 CO	MPLETE COMPLETE	COMPLETE	
			s from
l can answer sin looking at	nple questions tally charts ar	nd simple tables	
I can answer sin looking at Rung 1 co	nple questions tally charts ar	COMPLETE	

MATHS LADDER SHAPE
I can recognise a 3D shape in different orientations.
Rung 10 COMPLETE COMPLETE COMPLETE
I can make 3D shapes using modelling materials and name and describe their properties.
Rung 9 COMPLETE COMPLETE COMPLETE
I can draw 2D shapes and describe them using my knowledge of sides and angles.
Rung 8 COMPLETE COMPLETE COMPLETE
can recognise right angles in 2D shapes and say if an angle is greater or less than a right angle. Rung 7 COMPLETE COMPLETE COMPLETE
I can identify right angles and describe how right angles can make up 1/4, 1/2, 3/4 and a whole turn.
Rung 6 COMPLETE COMPLETE
I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
Rung 5 COMPLETE COMPLETE COMPLETE
I can compare and sort common 2D and 3D shapes and everyday objects.
Rung 4 COMPLETE COMPLETE
I can identify 2D shapes on the surface of 3D shapes e.g. a circle on a cylinder.
Rung 3 COMPLETE COMPLETE
I can identify, describe and sort 3D shapes by talking about the number of faces, edges and vertices.
Rung 2 COMPLETE COMPLETE COMPLETE
I can identify, describe and sort 2D shapes by naming them, talking about the number of sides and showing a vertical line of symmetry.
COMPLETE COMPLETE COMPLETE
Page 17

SHAPE



POSITION AND DIRECTION

I can distinguish betwe terms of right angles for a t	een rotation as a turn and in quarter, half and three quarter turns.
Rung 3 COMPLETE C I can use mathematic position, direction and me in a st	COMPLETE COM
Rung 2 COMPLETE C	OMPLETE COMPLETE
I can order and arrange of objects in patte	combinations of mathematical erns and sequences.
Rung 1 COMPLETE C	OMPLETE COMPLETE

I

MATHS	LADDER
-------	--------

	Ρ	LA	С	Ε	V	41	LU	E
--	---	----	---	---	---	----	----	---

L can count in tens and hundreds and can add or subtract 10 or 100 from any given number up to 1000.
Rung 7 COMPLETE COMPLETE COMPLETE
I can compare and order numbers up to 1000.
Rung 6 COMPLETE COMPLETE COMPLETE
I can read and write numbers up to 1000 in numerals and words.
I can understand the value of each digit in a 3 digit number.
Rung 4 COMPLETE COMPLETE COMPLETE
I can count in tens from any number including crossing boundaries into hundreds.
Rung 3 COMPLETE COMPLETE COMPLETE
I can compare and order numbers from 0 up to 100 using > < and = signs.
Rung 2 COMPLETE COMPLETE COMPLETE
I can understand the value of each digit in a 2 digit number.
Rung 1 COMPLETE COMPLETE COMPLETE
Page 20

NOTES	LEARNING LADDERS	
	NOTES	

NOTES	LEARNING LADDERS	
	NOTES	

NOTES	LEARNING LADDERS	
	NOTES	



LEARNING LADDERS

WWW.LEARNINGLADDERS.INFO

Copyright © 2015 Learning Ladders Education. All rights reserved.

The 'Learning Ladders' logo, device and characters are Trademarks of Learning Ladders Education Ltd.

Booklets are licensed for internal use by Malmesbury C of E Primary School.

For further information visit www.learningladders.info.