



# Year 5

## Termly Plans Academic Year 2023 - 2024

Teach Up

Mathematics  
Lessons

Manageable  
Steps

Intelligent Practice

Maths on Track  
Meetings

Weekly  
Suggestions

Deliberate Practice

Keep Up



# Introduction

This termly plan has two main sections: **Maths lessons** and **Maths on Track meetings**.

The **Maths lessons** have been carefully designed to support you to plan for successful learning of the year's maths based on the National Curriculum. The maths curriculum has been broken down into manageable steps

Manageable to teach and manageable to learn.

The '**Extra Problem Solving**' lessons provide flexibility within the timing of the plan for you to make decisions to adopt and adapt the CanDo termly plans to fit your own school calendar. They are an ideal opportunity for children to apply their understanding to new situations or check prerequisite knowledge before starting new learning. The Colin and Coco Challenges within each unit can be used to resource these sessions.

**End of Term Assessment: Remember It** at the end of each term is a session to check the learning that has taken place during the term using the CanDoMaths Remember It. There are QLA Spreadsheets provided to diagnostically analyse results and inform planning for the next term.

Retrieval practice – the process of recalling previously learnt material from our long-term memory – benefits pupils' learning (EEF). The **Maths on Track meetings** are an essential element in the CanDoMaths curriculum plan and the blue section provides suggestions for these 'Use It or Lose It' retrieval sessions each day:- .

- Monday and Tuesday have an arithmetic focus based on the Magic 24 from the CanDoMaths ArithmeKit.
- Wednesday and Thursday are to deliberately practise past and present learning to secure sustainable progress. CanDoMaths Deliberate Practice, Retrieve It and KeePuppI workouts provide resources for these sessions.
- Friday is time to really hit a number fact hard. CanDoBonds, CanDoTables and CanDo21 are resources that would support these sessions. Of course Friday is not the only time for number facts so the **fact column** suggests prioritising number bonds/tables throughout the week.

The CanDoMaths curriculum has 24 Key Performance Indicators in each year group. The **KPI column** identifies when the learning is linked to the KPI.

The **DfE RTP column** links the CanDoMaths KPIs to the DfE Ready to Progress criteria.

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# Year 5 Term 1

Term 1 W/c	KPI	DfE RTP	<b>Maths Lessons: Intelligent Practice</b> <b>Lesson by Lesson Plan</b> Resources for planning included in Gold and All Access Pass		<b>Fact Check</b> <b>Maths on Track: Deliberate Practice</b> Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It	
01/09/2022	F			TDD		
04/09/2023	M	KPI 1, 2 6NPV-2, 3	Number and Place Value	Represent 5-digit numbers	6 x table facts Ready to Progress Paper 1 Ready to Progress Paper 2 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDoTables 6x7	
	T			Recognise the value of digits in 5-digit numbers		
	W			Read 5-digit numbers in words and write using numerals including zero as a place holder		
	T			Read 5-digit numbers in numerals and write in words, including zero as a place holder		
11/09/2023	F		Identify and represent 5-digit numbers on a number line	Number and Place Value	Compare 5-digit numbers	7 x table facts 4.3 Round numbers to the nearest 10, 100 or 1000 4.3 Round numbers to the nearest 10, 100 or 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDoTables 7x7
	M		Represent numbers up to one million			
	T		Recognise the value of digits in numbers up to one million			
	W		Read 6-digit numbers in words and write using numerals including zero as a place holder			
18/09/2023	F		Read 6-digit numbers in numerals and write in words, including zero as a place holder	Number and Place Value	Identify and represent 6-digit numbers on a number line	7 x table facts 4.5 Use number facts to add 4.9 Use number facts to subtract Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDoTables 7x8
	M		Compare 6-digit numbers			
	T		Order numbers up to one million			
	W		Round any 5-digit number to the nearest 10 000			
25/09/2023	F	Round any 6-digit number to the nearest 100 000	Decimals	Count forwards and backwards in whole number steps including through zero	8 x table facts 4.2 Order decimal numbers and positon them on a number line 4.2 Order decimal numbers and positon them on a number line Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDoTables 8x6	
	M	Understand and use negative numbers in context, including temperatures below 0°C				
	T	Extra Problem Solving				
	W	Recognise that thousandths arise from dividing a number (or object) into one thousand equal parts and dividing hundredths by ten				
02/10/2023	F	Read a number with three decimal places	Decimals	Represent decimal numbers with up to 3 decimal places	8 x table facts 4.4 Round decimals with 1 decimal place to the nearest whole number 4.4 Round decimals with 1 decimal place to the nearest whole number Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDoTables 8x8	
	M	Write decimal equivalents of any number of thousandths				
	T	Identify decimal numbers, with up to 3 decimal places, on a number line				
	W	Position decimal numbers, with up to 3 decimal places, on a number line				
09/10/2023	F	Compare a set of numbers written to three decimal places	Decimals	Order decimal numbers with 3 decimal places	12 x table facts 4.8 Choose appropriate written or mental methods to add 4-digit numbers 4.8 Choose appropriate written or mental methods to add 4-digit numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDoTables 12x6	
	M	Compare numbers with a mixed number of decimal places				
	T	Order numbers with a mixed number of decimal places				
	W	Round numbers with two decimal places to one decimal place				
16/10/2023	F	Round numbers with two decimal places to the nearest whole number	Geometry: Properties of Shapes	Extra Problem Solving	12 x table facts 4.12 Choose appropriate written or mental methods to subtract numbers 4.12 Choose appropriate written or mental methods to subtract numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDoTables 12x7	
	M	Identify cubes from nets				
	T	Identify cuboids from nets				
	W	Extra Problem Solving				
End of Term Assessment: Remember It 1						

### Half Term

- Read Roman numerals to 1000 (M)
- Recognise years written in Roman numerals
- Identify prisms from nets
- Identify pyramids from nets

Due to the length of Term 1 being shorter for the academic year 2023/24, these manageable steps have been removed from the termly plan for maths lessons. They can be addressed in Maths on Track Meetings.



# Year 5 Term 2

Term 2. W/c		KPI	DfE RTP	<b>Maths Lessons: Intelligent Practice</b> <b>Lesson by Lesson Plan</b> Resources for planning included in Gold and All Access Pass		Fact Check	<b>Maths on Track: Deliberate Practice</b> Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It					
30/10/2023	M	KPI 6, 7	4MD-1, 5MD-1	Addition and Subtraction	Add two whole numbers choosing an efficient mental strategy	12x-table facts	4.18 Double and halve numbers					
	T				Subtract two whole numbers choosing an efficient mental strategy		4.18 Double and halve numbers					
	W				Use column addition for two numbers with more than 4 digits when regrouping is required in multiple columns		Deliberate Practice: Past and Present					
	T				Use column subtraction for two numbers with more than 4 digits when exchanging is required in multiple columns		Deliberate Practice: Past and Present/KPI Workout					
	F				Use column addition for numbers with 3 decimal places when regrouping is required		CanDoTables 12x8					
06/11/2023	M			Use column addition for numbers with 1, 2 or 3 decimal places when regrouping is required	4.19 Use place value and known facts to multiply mentally							
	T			Use column subtraction for numbers with 3 decimal places when exchanging is required	4.19 Use place value and known facts to multiply mentally							
	W			Use column subtraction for numbers with 1, 2 or 3 decimal places when exchanging is required	Deliberate Practice: Past and Present							
	T			Add two decimal numbers choosing an efficient strategy	Deliberate Practice: Past and Present/Retrieval							
	F			Subtract two decimal numbers choosing an efficient strategy	CanDoTables 12x11							
13/11/2023	M		KPI 8	4MD-1, 5MD-1	Multiplication and Division: Powers of 10		Extra Problem Solving	12x-table facts	4.23 Use place value and known facts to divide mentally			
	T						Multiply a whole number by 10		4.23 Use place value and known facts to divide mentally			
	W						Multiply a whole number by 100		Deliberate Practice: Past and Present			
	T						Multiply a whole number by 1000		Deliberate Practice: Past and Present/KPI Workout			
	F						Multiply a whole number by 1000		CanDoTables 12x12			
20/11/2023	M	Multiply a decimal by 10			4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods							
	T	Multiply a decimal by 100			4.21 Multiply 3-digit numbers by 1-digit numbers using efficient methods							
	W	Divide a whole number by 10			Deliberate Practice: Past and Present							
	T	Divide a whole number by 100			Deliberate Practice: Past and Present/Retrieval							
	F	Divide a whole number by 1000			CanDo21 3x3							
27/11/2023	M	KPI 9		5MD-2	Multiplication and Division: Powers of 10	Divide a decimal by 10	3x-table Retrieval Facts		4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods			
	T					Divide a decimal by 100			4.24 Divide 3-digit numbers by 1-digit numbers using efficient methods			
	W					Extra Problem Solving			Deliberate Practice: Past and Present			
	T					Extra Problem Solving			Deliberate Practice: Past and Present/KPI Workout			
	F					Extra Problem Solving			CanDo21 3x4			
04/12/2023	M		5MD-2		5MD-2	Multiplication and Division: Properties of Number		Find prime numbers up to 20	3x-table Retrieval Facts	5.2 Compare and order numbers up to 1,000,000		
	T							Find prime and composite numbers up to 20		5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000		
	W							Express a given number as the product of prime factors		Deliberate Practice: Past and Present		
	T							Know how to test if a number up to 100 is prime		Deliberate Practice: Past and Present/Retrieval		
	F							Find the common factors of two numbers		CanDo21 3x6		
11/12/2023	M			5MD-2		5MD-2		Multiplication and Division: Properties of Number		Find multiples of a given number	3x-table Retrieval Facts	5.2 Compare and order numbers up to 1,000,000
	T									Find square numbers and use the notation for squared		5.4 Round numbers to the nearest 10, 100, 1000, 10,000 and 100,000
	W									Find cube numbers and use the notation for cubed		Deliberate Practice: Past and Present
	T									Extra Problem Solving		Deliberate Practice: Past and Present/KPI Workout
	F									End of Term Assessment: Remember It 2		CanDo21 3x7
Christmas break												



# Year 5 Term 3

Term 3. W/c		KPI	D/E RTP	<b>Maths Lessons: Intelligent Practice</b> <b>Lesson by Lesson Plan</b> Resources for planning included in Gold and All Access Pass		<b>Fact Check</b> <b>Maths on Track: Deliberate Practice</b> Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
02/01/2024	M	KPI 10	5MD-3	<b>Multiplication and Division: Written Methods</b> Extra Problem Solving Multiply numbers up to 4-digits by a one-digit number using short multiplication Multiply 2 digit by 2 digit numbers using the distributive law Multiply 2 digit by 2 digit numbers using long multiplication		3xable Reledefacts 5.3 Compare and order decimals Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 3x8
	T					
	W					
	F					
08/01/2024	M	KPI 10	5MD-3	<b>Multiplication and Division: Written Methods</b> Multiply 3 digit numbers by 2 digit numbers using long multiplication Multiply 4 digit numbers by 2 digit numbers using long multiplication Use efficient methods to multiply mentally Use known facts and place value to multiply a whole number by a decimal Multiply a one-digit number by a decimal (1 dp) using a formal written method		3xable Reledefacts 5.3 Compare and order decimals 5.5 Round decimal numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 3x9
	T					
	W					
	F					
15/01/2024	M	KPI 12, 13	5MD-3	<b>Multiplication and Division: Written Methods</b> Multiply a one-digit number by a decimal (2dp) using a formal written method Extra Problem Solving Extra Problem Solving Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with no remainder Divide a four-digit number by a one-digit number using short division (thousands digit = multiple of divisor, divisor < hundreds digit) with no remainder		4xable Reledefacts 5.3 Compare and order decimals 5.5 Round decimal numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 4x4
	T					
	W					
	F					
22/01/2024	M	KPI 11	5MD-4	<b>Multiplication and Division: Written Methods</b> Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with no remainder Divide a four-digit number by a one-digit number using short division (divisor < thousands digit) with a remainder Divide a four-digit number by a one-digit number using short division (divisor > thousands digit) with a remainder Extra Problem Solving Extra Problem Solving		4xable Reledefacts 5.12 Multiply by 100, 100 and 1000 5.17 Divide by 10, 100 and 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 4x6
	T					
	W					
	F					
29/01/2024	M			<b>Geometry: Position and Direction</b> Extra Problem Solving Extra Problem Solving Extra Problem Solving Know what congruence means Carry out a translation described using mathematical language Carry out a reflection using a line parallel to the axes including touching the object		4xable Reledefacts 5.12 Multiply by 100, 100 and 1000 5.17 Divide by 10, 100 and 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 4x6
	T					
	W					
	F					
05/02/2024	M			<b>Geometry: Position and Direction</b> Carry out a reflection using a line parallel to the axes and crossing the object Describe a reflection Extra Problem Solving Extra Problem Solving		4xable Reledefacts 5.12 Multiply by 100, 100 and 1000 5.17 Divide by 10, 100 and 1000 Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 4x7
	T					
	W					
	F					
End of Term Assessment: Remember It 3						
Half Term						



# Year 5 Term 4

Term 4. W/c		KPI	DfE RTP	<b>Maths Lessons: Intelligent Practice</b> <b>Lesson by Lesson Plan</b> Resources for planning included in Gold and All Access Pass		<b>Fact Check</b> <b>Maths on Track: Deliberate Practice</b> Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
19/02/2024	M	KPI 14	3F-3, 3F-2, 6F-2	<b>Fractions, Decimals and Percentages</b>	Extra Problem Solving	
	T				Identify equivalent fractions represented visually	
	W				Compare fractions whose denominators are multiples of the same number	
	F				Order fractions whose denominators are multiples of the same number Represent tenths and hundredths	
26/02/2024	M	KPI 15	(5F-3)	<b>Fractions, Decimals and Percentages</b>	Write a number less than 1 with one decimal place as a fraction	4.6 Use place value or adjusting to add numbers mentally 4.16 Double decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/RetrieveIt CanDo21 4x8
	T				Write a number less than 1 with two decimal places as a fraction	
	W				Write a number less than 1 with three decimal places as a fraction	
	F				Understand that per cent relates to number of parts per hundred Write any percentage as a fraction with a denominator of 100	
04/03/2024	M	KPI 16		<b>Fractions, Decimals and Percentages</b>	Write any percentage as a decimal	Ready to Progress Paper 3 4.16 Double decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 4x8
	T				Know percentage equivalents of 1/2, 1/4, 1/5, 2/5, 4/5	
	W				Establish percentage equivalents of fractions with a denominator of multiples of 10	
	F				Establish percentage equivalents of fractions with a denominator of multiples of 25 Extra Problem Solving	
11/03/2024	M	KPI 17	5NPV-5	<b>Measurement: Length, Mass and Capacity</b>	Extra Problem Solving	4.9 Use place value or adjusting to subtract numbers mentally 4.21 Halve decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/RetrieveIt CanDo21 4x9
	T				Convert kilometres to metres using decimal notation	
	W				Convert metres to kilometres using decimal notation	
	F				Convert metres to centimetres using decimal notation Convert centimetres to metres using decimal notation	
18/03/2024	M			<b>Measurement: Length, Mass and Capacity</b>	Convert between centimetres and millimetres using decimal notation	4.9 Use place value or adjusting to subtract numbers mentally 4.21 Halve decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 4x9
	T				Calculate the perimeter of composite rectilinear shapes where all measurements are given including mixed units	
	W				Calculate the perimeter of composite rectilinear shapes where some measurements need to be calculated	
	F				Convert between kilograms and grams using decimal notation Convert between litres and millilitres using decimal notation	
25/03/2024	M			<b>Measurement: Length, Mass and Capacity</b>	Know approximate equivalences between metric and imperial units including pounds and pints	4.9 Use place value or adjusting to subtract numbers mentally 4.21 Halve decimal and whole numbers Deliberate Practice: Past and Present Deliberate Practice: Past and Present/RetrieveIt
	T				Know approximate equivalences between inches and centimetres	
	W				Extra Problem Solving	
	F				End of Term Assessment: Remember It 4	
Easter Break						



# Year 5 Term 5

Term 5. W/c		KPI	D/E RTP	<b>Maths Lessons: Intelligent Practice</b> <b>Lesson by Lesson Plan</b> Resources for planning included in Gold and All Access Pass		<b>Maths on Track: Deliberate Practice</b> Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It	
15/04/2024	M	KPI 18	4F-2	Fractions: Calculating	Extra Problem Solving	6x6able	6x6able
	T				Convert a mixed number into an improper fraction		
	W				Convert an improper fraction into a mixed number		
	F				Add proper fractions denominator multiples within the whole		
22/04/2024	M	KPI 19	4F-3	Fractions: Calculating	Add mixed number and proper fraction, same denominator = mixed number answer	6x6able	6x6able
	T				Add mixed number and proper fraction, same denominator = mixed number answer (beyond whole)		
	W				Add mixed number and proper fraction, denominator multiples = mixed number answer		
	F				Add mixed number and proper fraction, denominator multiples = mixed number answer (beyond whole)		
29/04/2024	M	KPI 20	4F-3	Fractions: Calculating	Extra Problem Solving	6x6able	6x6able
	T				Subtract proper fraction from mixed number, same denominator within the whole		
	W				Subtract proper fraction from mixed number, same denominator (across whole)		
	F				Subtract proper fractions, denominator multiples within the whole		
06/05/2024	M	KPI 21		Fractions: Calculating	Bank Holiday	6x6able	6x6able
	T				Extra Problem Solving		
	W				Extra Problem Solving		
	F				Multiply unit fraction by a whole number		
13/05/2024	M			Fractions: Calculating	Multiply non-unit fraction by a whole number	6x6able	6x6able
	T				Multiply mixed number by a whole number		
	W				Multiply mixed number by a whole number (beyond whole)		
	F				Extra Problem Solving		
20/05/2024	M			See Term 6	Extra Problem Solving	6x6able	6x6able
	T				End of Term Assessment: Remember It 5		
	W				For the academic year 2023-2024 see week 1 of Term 6 for manageable steps		
	F						

Half Term





# Year 5 Term 6

Term 6. W/c		KPI	D/E RTP	<b>Maths Lessons: Intelligent Practice</b> <b>Lesson by Lesson Plan</b> Resources for planning included in Gold and All Access Pass		<b>Maths on Track: Deliberate Practice</b> Resources for Monday, Tuesday and Friday included in All Access Pass and Use It or Lose It
20/05/2024	M	KPI 22	5G-2	<b>Measurement: Area and Volume</b> (In 2023-2024 to be taught in the last week of term 5)	Extra Problem Solving	6x1able Relatedfacts 5.19 Divide numbers mentally using known facts and place value 5.24 Solve problems: Percentage and decimal equivalents Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 6x8
	T				Make connections between arrays and calculating the area of rectangles	
	W				Calculate the area of rectangles (not squares)	
	F				Calculate the area of squares	
03/06/2024	M	KPI 22	5G-2	<b>Measurement: Area and Volume</b>	Find an estimate for the area of shapes that are not rectangles	6x1able Relatedfacts 5.7 Add numbers with more than 4 digits using efficient methods 5.13 Multiply numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 6x9
	T				Find an estimate for the volume of a 3D shape	
	W				Estimate capacity	
	F				Extra Problem Solving	
10/06/2024	M	KPI 23	5G-1	<b>Geometry: Properties of Shapes</b>	Identify reflex angles	7x1able Relatedfacts 5.7 Add numbers with more than 4 digits using efficient methods 5.13 Multiply numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 7x7
	T				know angles are measured in degrees	
	W				Estimate acute, obtuse and reflex angles	
	F				Use a protractor to measure acute angles	
17/06/2024	M	KPI 23	5G-1	<b>Geometry: Properties of Shapes</b>	Use a protractor to measure obtuse angles	7x1able Relatedfacts 5.7 Add numbers with more than 4 digits using efficient methods 5.13 Multiply numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 7x8
	T				Use a protractor to draw acute angles	
	W				Use a protractor to draw obtuse angles	
	F				Use a protractor to draw reflex angles	
24/06/2024	M	KPI 24	5G-1	<b>Geometry: Properties of Shapes</b>	Identify and find angles at a point	7x1able Relatedfacts 5.10 Subtract numbers with more than 4 digits using efficient methods 5.18 Divide numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 7x8
	T				Identify and find angles at a point on a straight line	
	W				Use the properties of rectangles to find missing lengths and angles	
	F				Know the difference between a regular and an irregular polygon	
01/07/2024	M	KPI 24	5G-1	<b>Measurement: Time</b>	Extra Problem Solving	7x1able Relatedfacts 5.10 Subtract numbers with more than 4 digits using efficient methods 5.18 Divide numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/Retrievelt CanDo21 7x9
	T				Convert from seconds to minutes	
	W				Convert from minutes to hours	
	F				Convert from hours to days	
08/07/2024	M	KPI 24	5G-1	<b>Statistics</b>	Convert from days to weeks	7x1able Relatedfacts 5.10 Subtract numbers with more than 4 digits using efficient methods 5.18 Divide numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present/KPI Workout CanDo21 7x9
	T				Extra Problem Solving	
	W				Read and interpret information given in a timetable	
	F				Read and interpret information given in a table	
15/07/2024	M	KPI 24	5G-1	<b>Extra Problem Solving</b>	Read and interpret information given in a line graph	7x1able Relatedfacts Ready to Progress Paper 4 5.18 Divide numbers mentally using factors or partitioning Deliberate Practice: Past and Present Deliberate Practice: Past and Present CanDo21 7x12
	T				Extra Problem Solving	
	W				Extra Problem Solving	
	F				Extra Problem Solving	
22/07/2024	M	KPI 24	5G-1	<b>Extra Problem Solving</b>	End of Term Assessment: Remember It 6	7x1able Relatedfacts TDD
	T				TDD	
Summer Holiday						