Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 2 (7-12)

Pupil:_____

Learning target:	Date
I can look for hidden objects- sight, hearing or touch	
I can match objects by size	
I can **fill** a container	
I can take objects out of a container	
I can help build using blocks etc.	
I have a go at putting things together	

7	8	9	10	11	12
up to 1	up to 2	up to 3	up to 4	up to 5	up to 6

Jottings

End of Autumn Term	
End of Spring Term	
End of Summer Term	

End of Autumn Term	
End of Spring Term	
End of Summer Term	

Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 3 (13-18)

Pupil:_____

Learning target:	Date
I can sort out shapes from the other shapes	
I can spot the shapes in a picture	
I can tell the **larger** object from 2 different sized objects	
I can tell the **smaller** object from 2 different sized objects	
I can choose the **biggest** piece of ---- (e.g. cake, apple, etc.)	
I can choose the **smallest** piece of-----	
I can put things **in** / **inside**	
I can put things **outside**	

13 up to 1	14 up to 2	15 up to 3	16 up to 4	17 up to 6	18 up to 8

Jottings

End of Autumn Term	
End of Spring Term	
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End of Autumn Term	
End of Spring Term	
End of Summer Term	

Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 4 (19-24)

Pupil:_____

Learning target:	Date
Sorting: I can match 2D shapes (e.g.circles, rectangles)	
I can match 3d shapes (e.g. cube, cuboid, spheres, ball, plate)	
Position: I can place objects on **top**	
I can place objects **under**	
I understand the word **STOP**	
I understand the word **GO**	
I understand : **go faster**	
I understand: **slow down**	
Measure: I can tell which is **more**	
I can tell which is l**ess**	
I can tell which group is **smaller**	
I can tell which group is **larger/ bigger**	
I can order by length *e.g.the longest snake*	
Time: I can sequence 2 pictures of daily events	

19	20	21	22	23	24
up to 2	up to 4	up to 7	up to 10	up to 12	up to 14

Jottings

End of Autumn Term	
End of Spring Term	
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End of Summer Term	

Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 5 (25-30)

Pupil:_____

Learning target:	Date
I can find the circles and squares amongst other shapes	
I can find a 3D shape that rolls	
Position: I understand the words: **on, under, in, out, on top, at the bottom, next to**	
I know what move **backwards or forwards** means	
I know to move **slowly or quickly**	
I can say which way I moved- direction	
Comparative: I can choose the heaviest package	
I can choose the lightest package	
I know which group has more	
I know which group has less	
I know which object is the longest	
I know which object is the shortest	
I know when something is empty	
I know when something is full	
Time: I can sequence 3 pictures of daily events	
I know when it is coming up to lunch time, home time	

25	26	27	28	29	30
up to 3	up to 6	up to 8	up to 10	up to 13	up to 16

Jottings

End of Autumn Term	
End of Spring Term	
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End of Spring Term	
End of Summer Term	

Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 6 (31-36)

Pupil:_____

Learning target:	Date
I can describe a 2**D shape**, using sides and corners	
I know that shapes have names	
I use shapes to create patterns	
I can sort shapes (*triangles, circles, rectangles)*	
I build using shapes	
I can sort the **3D shapes,** spotting similarities	
I can spot shapes in pictures	
I know that lines can be straight	
I know lines can be curved	
Measure: I can compare things that are long or short	
I can compare things that are full or empty	
I can compare things that are heavy or light	
I can compare things that are wide or narrow	
I can find something that is shorter or longer	
Time: I can sequence 4 pictures	
I know there are different times in the day: I use the terms day and night	
I know morning, afternoon, lunch time and home time	
I join in saying: the days of the week	

31	32	33	34	35	36
up to 3	up to 6	up to 9	up to 12	up to 15	up to 18

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Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 7 (37-39)

Pupil:_____

Learning target:	Date
Sorting: I can recognise 2**D shapes**, and name circles and triangles and squares	
I can sort objects by shape	
I can sort the shapes by size	
I can recognise if a shape is 2D or 3D	
I can create repeat patterns	
Position: I can describe where I found an object: above, on, under, at the top, bottom	
Time: I can say the days of the week	
I understand yesterday, today, tomorrow	
I know what a clock is used for	
I know when school starts, break time, lunch time, home time- the key times of the day e.g *is it in the morning? Or the afternoon?*	
I know what a class time table is used for	
Measure: I know how to find the tallest to shortest person (or objects)	
I know what the words heavy and light mean	
I know the words empty, half empty, full	
I know which container holds the most	

37	38	39
up to 5	up to 10	up to **15**

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Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 8 (40-42)

Pupil:_____

Learning target:	Date
2**D shapes**: I recognise the shape even if the size is different (circle, triangle, rectangle and square)	
3D shapes: I can find similar shapes: a cube, cylinder, sphere and cuboid	
I know the shapes that fit together	
Pattern: I can describe and make patterns	
Symmetry: I can use a mirror to explore shapes	
Position: I can put objects where I am told to : above, on, under, below, in front of, behind, in between	
Time: I can tell someone about the things that happen on a school day—*routine of the day*	
I know how often events occur, e.g. we go Swimming…	
I can read the time in hours on the clock--- digital	
I carry out tasks for **a minute**	
Measure: I use balance scales to compare weights	
I can put 3 objects in order of weight	
I can use my hands to feel and estimate the heaviest to lightest	
I can find other things that are heavier or lighter	
I can order objects according to length	

40	41	42
up to 5	up to 10	up to 15

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Maths: Geometry & Measure Step 9 (43-45)

Pupil:_____

Learning target:	Date
I can guess the shape in a 'feely bag'	
Position: I know that arrows show me a direction- recognizing directional symbols	
I know the words and can follow: turn, 2 turns, ½ turn	
Time: I know the order of the days of the week	
I know tomorrow is….	
I know that yesterday was….	
I know that my birthday is in the month of…	
I can rote say the months of the year	
Measure: I can use non-standard measures e.g. strides, cubes	
I can estimate the number of strides to measure a room	
I know how to check my estimate	

43	44	45
up to 4	up to 7	up to 11

Jottings

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Maths: Geometry & Measure Step 10 (46-48)

Pupil:_____

Learning target:	Date
Sorting: 2**D shapes**: I can name and describe a square, rectangle, circle and triangle	
3D shapes: I can describe a simple shape by the number of faces, or type of surface (e.g. curved)	
I can guess the shape in a 'feely bag', *by using their properties*	
Pattern: I can draw a line of symmetry on a simple shape	
Position: describe the position of a feature on a map	
Identify a feature in a named position	
Angles- I recognise right angles	
Time: I can read half hours on an analogue clock	
I can read half hours on a ---digital clock	
I know the seasons of the year	
I can match events to the hour time on a clock	
Measure: I know when to use the different units of measure *m. l. kg. cm*	

46	47	48
up to 4	up to 8	up to 12

Jottings

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Maths: Geometry & Measure Step 11 (49-51)

Pupil:_____

Learning target:	Date
Sorting: 2**D shapes**: I can recognise a hexagon and state the number of sides	
3D shapes: I can find 3D shaped objects	
Pattern: I can use a mirror to complete a symmetrical picture	
Position: I can turn clockwise and anti-clockwise	
Time: I can read quarter hours on an --- analogue clock	
I can read the hours and half hours on a digital clock	
I can put the hours and half hours on a clock	
Measure:	
I can compare standard measures with non-standard	
I know where and why weighing scales are used	
I know what a kg feels like. I know what weighs more or less than a kg.	
I know what a litre looks like, and can choose containers that can hold more than a litre	

49	50	51
up to 4	up to 7	up to 11

Jottings

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Oaktree School Curriculum Ladder

Maths: Geometry & Measure Step 12 (52-54)

Pupil:_____

Learning target:	Date
Sorting: 2**D shapes**: I can name and describe most 2D shapes	
I recognise regular and irregular shapes	
3D shapes: I can sort 3D shapes using my own criteria	
I can recognise 3D shapes including pyramids and prisms	
I can make shapes using 4-linking cubes- Link: U&A explore- how many shapes can I make?	
Pattern: I can complete symmetrical patterns	
Position: I can give instructions for someone to follow	
Angles- I can identify right angles in 2D shapes	
I know that a angles are a measure of turn: whole turn, half turn, quarter turn	
Time: I know that 1 day is 24 hours, I know that 1 hour is 60 minutes, I know that 1 minute is 60 seconds	
I know the months of the year	
I can solve problems related up to ¼ hours	
I can make sensible estimates of time… about 1 min, …10 min. …1 hour etc.	
Measure: LENGTH:I know that 1 metre is 100 centimetres *(m. &cm.)*	
I can use a ruler to measure in cm.	
MASS: I know 1 kilogram is 1000 grams (kg. & g.)	
I can record the weight of objects using digital scales	
CAPACITY: I know that 1 litre is 1000 millitiltres (l. & ml.)	
I can use measuring jugs to measure capacity	

52	53	54
up to 6	up to 12	up to 19

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Maths: Geometry & Measure Steps 13-15 (55-63)

Pupil:_____

Learning target:	Date
2**D shapes**: I know that a 4 sided shape is a quadrilateral and can identify	
I can identify regular and irregular shapes	
3D shapes: I can name and describe 3D solids, using mathematical language	
I am able to compare nets of different packets	
Pattern: I can recognise shapes with no lines of symmetry, and that some shapes can have a number of lines of symmetry	
Postions: I can read a grid to identify a position of an object	
I can read a grid using (B,1) coordinates	
I know that (1,4) is not the same as (4,1)	
I can name the four main points of a compass	
I can identify vertical and horizontal lines	
I can make patterns by rotating shapes	
Time: I know that 1 year is 12 months or 365 days	
I can write the date correctly and can use a calendar	
I use variety of time tables and schedules	
I can read an analogue and digital clock in 5 minute intervals	
I can solve problems related to seconds, minutes, hours	
I can suggest appropriate units of time in which to measure	
Measure: LENGTH: I can accurately use a ruler to measure and draw to the nearest ½cm.	
I know that 1 kilometre is 1000 metres *(km. &m.)*	
I can solve problems involving miles, km, m or cm	
MASS: I can accurately use a range of scales and weights	
I can read scales to the nearest division	
I can record the weight using decimal fractions	
I can solve problems concerning kg, ½ kg. units of 100grams	
CAPACITY: I can accurately measure fluids	
I can solve problems concerning capacity litres, half litres and units of 100ml.	
I can use the scales on jugs and read to the nearest division	
I record the amount using decimal fractions	

55	56	57	58	59	60	61	62	63
up to 3	up to 6	up to 9	up to 13	up to 15	up to 18	up to 22	up to 25	up to 28

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Maths: Geometry & Measure Steps 16-18 (64-72)

Pupil:_____

Learning target:	Date
2**D shapes**: I can identify 2d shapes	
3D shapes: I can identify 3D shapes from nets	
SYMMETRY: Reflection: I can sketch a reflection of a simple shape in a mirror line	
I know where a shape will be after a reflection in a mirror parallel to one side	
I know where a shape will after a reflection in two mirrors at right angles	
Translation: I know where a shape will be after one translation	
I know where a shape will be after two translations	
Rotation: I can make patterns by rotating a shape 90 and 45 degrees	
I recognize where a shape will be after a rotation through 90 degrees about one of it's vertices	
I can recognize rotational symmetry	
MEASURE: Area: I can find the area by counting squares	
I can find the area of simple rectangular shapes	
I can find the area of compound shapes	
Perimeter: I can find the perimeter of simple rectangular shapes.	
I can measure and calculate the perimeter of rectangles and other regular polygons	
I can calculate the perimeter of compound shapes	
Scales: I can read the scales to the nearest division	
I can read the scales between divisions	
I can read scales, converting the unit to an equivalent metric unit	
TIME: I can use a 24 hour clock with efficiency	
I am able to read timetables etc using a 24 hour clock	

64	65	66	67	68	69	70	71	72
up to 2	up to 4	up to 7	up to 9	up to 11	up to 14	up to 16	up to 19	up to 21

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Maths: Geometry & Measure Steps 19-21 (73-81)

Pupil:_____

Learning target:	Date
Shape: I can measure and draw angles to the nearest degree	
I understand and recognise parallel and perpendicular **edges** and **faces**	
I can classify quadrilaterals and triangles according to a wide range of properties	
I know and can use the **sum of angles** in triangles and around a point to calculate 'missing' angles (I know that the angle sum of a triangle is 180 degrees)	
I can use a protractor to measure and draw angles, including acute and obtuse angles	
Measure: I can read and interpret scales and explain what labelled divisions represent	
I can convert units of measure to solve problems	
I know metric equivalents for imperial units- *mile, pint, gallon, pound, ounce*	
I can use make sensible estimates of a range of measures	
I can use formulae to calculate area & perimeter	
Symmetry: I can identify all the symmetries of 2D shapes	
I can transform shapes via reflection, rotation and translation	
I can reason about shapes, positions and movements, including using nets for 3D shapes	
I can draw shapes with particular properties	

73 up to 2	74 up to 4	75 up to 6	76 up to 7	77 up to 8	78 up to 10	79 up to 12	80 up to 13	81 up to 14

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