

A high-quality mathematics education ... provides a foundation for understanding the world, the ability to reason mathematically, an appreciation of the beauty and power of mathematics, and a sense of enjoyment and curiosity about the subject.”

(The New national curriculum in England framework document, July 2013)

Year 3	Autumn 1	
Prior Learning	Key Vocabulary	
Objectives	When else will objective be covered	
<u>Number and Place Value</u> <ol style="list-style-type: none"> 1. Count in multiples in steps of 4, 8, 50 and 100 2. Find 10 or 100 more or less than a given number 3. Compare and order numbers to 1000 4. Identify, represent and estimate numbers using different representations 5. Read and write numbers up to 1000 in numerals and in words 6. Recognise the value of each digit in a three digit number (hundreds, tens and ones) 7. Solve number problems and practical problems involving these ideas. 	Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective	
<u>Addition and Subtraction</u> <ol style="list-style-type: none"> 8. Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction 9. Estimate the answer to a calculation and use inverse operations to check answers 10. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction 	Core Objective Core Objective Core Objective	
<u>Multiplication and Division</u> <ol style="list-style-type: none"> 11. Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables 12. Write and calculate mathematical statements for multiplication and division using the 	Core Objective Autumn 1, Spring 1, Summer 1, 2	

multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	
<u>Fractions including decimals and percentages</u> 13. Count up and down in tenths 14. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers of quantities by 10 15. Solve problems that involve all of the above	Core Objective Core Objective Core Objective
<u>Measurement</u> 16. Compare duration of events, for example to calculate the time taken by particular events or tasks. 17. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m./ morning, afternoon, noon and midnight 18. Measure the perimeter of simple 2D shapes 19. Add and subtract amounts of money to give change, using both £ and p in practical contexts 20. Know the number of seconds in a minute and the number of days in each month, year and leap year	Core Objective Core Objective Autumn 1, 2 Autumn 1, Spring 1, Summer 1, 2 Core Objective
<u>Geometry</u> 21. Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them 22. Recognise angles as a property of a shape or description of a turn	Autumn 1, 2 Autumn 1, 2
<u>Statistics/Data</u>	
<u>Algebra</u> <i>See addition and subtraction:</i> 23. <i>Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction</i>	Core Objective

Medium Term Plan				
Week 1 Context for Learning:				
1.	2.	3.	4.	5.
Week 2 Context for Learning:				
1.	2.	3.	4.	5.
Week 3 Context for Learning:				
1.	2.	3.	4.	5.
Week 4 Context for Learning:				
1.	2.	3.	4.	5.
Week 5 Context for Learning:				
1.	2.	3.	4.	5.
Week 6 Context for Learning:				
1.	2.	3.	4.	5.

Year 3	Autumn 2	
Prior Learning	Key Vocabulary	
Objectives	When else will objective be covered	
<u>Number and Place Value</u> <ol style="list-style-type: none"> 1. Count in multiples in steps of 4, 8, 50 and 100 2. Find 10 or 100 more or less than a given number 3. Compare and order numbers to 1000 4. Identify, represent and estimate numbers using different representations 5. Read and write numbers up to 1000 in numerals and in words 6. Recognise the value of each digit in a three digit number (hundreds, tens and ones) 7. Solve number problems and practical problems involving these ideas. 	Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective	
<u>Addition and Subtraction</u> <ol style="list-style-type: none"> 8. Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction 9. Estimate the answer to a calculation and use inverse operations to check answers 10. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction 	Core Objective Core Objective Core Objective	
<u>Multiplication and Division</u> <ol style="list-style-type: none"> 11. Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables 	Core Objective	
<u>Fractions including decimals and percentages</u> <ol style="list-style-type: none"> 12. Count up and down in tenths 13. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers of quantities by 10 14. Solve problems that involve all of the above 	Core Objective Core Objective Core Objective	
<u>Measurement</u> <ol style="list-style-type: none"> 15. Compare duration of events, for example to calculate the time taken by particular events 	Core Objective	

<p>or tasks.</p> <p>16. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m./ morning, afternoon, noon and midnight</p> <p>17. Measure the perimeter of simple 2D shapes</p> <p>18. Add and subtract amounts of money to give change, using both £ and p in practical contexts</p> <p>19. Know the number of seconds in a minute and the number of days in each month, year and leap year</p>	<p>Core Objective</p> <p>Autumn 1, 2</p> <p>Autumn 1, Spring 1, Summer 1, 2</p> <p>Core Objective</p>
<p><u>Geometry</u></p> <p>20. Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them</p> <p>21. Recognise angles as a property of a shape or description of a turn</p>	<p>Autumn 1, 2</p> <p>Autumn 1, 2</p>
<p><u>Statistics/Data</u></p>	
<p><u>Algebra</u></p> <p><i>See addition and subtraction:</i></p> <p>22. <i>Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction</i></p>	<p>Core Objective</p>

Medium Term Plan				
Week 1 Context for Learning:				
1.	2.	3.	4.	5.
Week 2 Context for Learning:				
1.	2.	3.	4.	5.
Week 3 Context for Learning:				
1.	2.	3.	4.	5.
Week 4 Context for Learning:				
1.	2.	3.	4.	5.
Week 5 Context for Learning:				
1.	2.	3.	4.	5.
Week 6 Context for Learning:				
1.	2.	3.	4.	5.

Year 3	Spring 1	
Prior Learning	Key Vocabulary	
Objectives	When else will objective be covered	
<u>Number and Place Value</u> <ol style="list-style-type: none"> 1. Count in multiples in steps of 4, 8, 50 and 100 2. Find 10 or 100 more or less than a given number 3. Compare and order numbers to 1000 4. Identify, represent and estimate numbers using different representations 5. Read and write numbers up to 1000 in numerals and in words 6. Recognise the value of each digit in a three digit number (hundreds, tens and ones) 7. Solve number problems and practical problems involving these ideas. 	Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective	
<u>Addition and Subtraction</u> <ol style="list-style-type: none"> 8. Add and subtract numbers mentally including: a three digit number and ones, a three digit number and tens, a three digit number and hundreds 9. Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction 10. Estimate the answer to a calculation and use inverse operations to check answers 11. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction 	Spring 1, 2 & Summer 1, 2 Core Objective Core Objective Core Objective	
<u>Multiplication and Division</u> <ol style="list-style-type: none"> 12. Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables 13. 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 	Core Objective Autumn 1, Spring 1, Summer 1, 2	
<u>Fractions including decimals and percentages</u> <ol style="list-style-type: none"> 14. Count up and down in tenths 15. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit 	Core Objective Spring 1, 2	

<p>fractions with small denominators</p> <p>16. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers of quantities by 10</p> <p>17. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p> <p>18. Solve problems that involve all of the above</p>	<p>Core Objective</p> <p>Spring 1, 2</p> <p>Core Objective</p>
<p><u>Measurement</u></p> <p>19. Compare duration of events, for example to calculate the time taken by particular events or tasks.</p> <p>20. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m./ morning, afternoon, noon and midnight</p> <p>21. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); Volume/capacity (l/ml)</p> <p>22. Add and subtract amounts of money to give change, using both £ and p in practical contexts</p> <p>23. Know the number of seconds in a minute and the number of days in each month, year and leap year</p>	<p>Core Objective</p> <p>Core Objective</p> <p>Spring 1, 2 & Summer 1, 2</p> <p>Autumn 1, Spring 1, Summer 1, 2</p> <p>Core Objective</p>
<p><u>Geometry</u></p> <p>24. Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four make a whole turn; identify whether angles are greater than or less than a right angle</p>	<p>Spring 1, 2, Summer 1</p>
<p><u>Statistics/Data</u></p> <p>25. Interpret and use data using bar charts, pictograms and tables</p> <p>26. Solve one step and two step questions (e.g. 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables</p>	<p>Spring 1, 2, Summer 1, 2</p> <p>Spring 1, 2 Summer 1, 2</p>
<p><u>Algebra</u></p> <p><i>See addition and subtraction:</i></p> <p>27. <i>Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction</i></p>	<p>Core Objective</p>

Medium Term Plan				
Week 1 Context for Learning:				
1.	2.	3.	4.	5.
Week 2 Context for Learning:				
1.	2.	3.	4.	5.
Week 3 Context for Learning:				
1.	2.	3.	4.	5.
Week 4 Context for Learning:				
1.	2.	3.	4.	5.
Week 5 Context for Learning:				
1.	2.	3.	4.	5.
Week 6 Context for Learning:				
1.	2.	3.	4.	5.

Year 3	Spring 2	
Prior Learning	Key Vocabulary	
Objectives	When else will objective be covered	
<u>Number and Place Value</u> <ol style="list-style-type: none"> 1. Count in multiples in steps of 4, 8, 50 and 100 2. Find 10 or 100 more or less than a given number 3. Compare and order numbers to 1000 4. Identify, represent and estimate numbers using different representations 5. Read and write numbers up to 1000 in numerals and in words 6. Recognise the value of each digit in a three digit number (hundreds, tens and ones) 7. Solve number problems and practical problems involving these ideas. 	Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective	
<u>Addition and Subtraction</u> <ol style="list-style-type: none"> 8. Add and subtract numbers mentally including: a three digit number and ones, a three digit number and tens, a three digit number and hundreds 9. Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction 10. Estimate the answer to a calculation and use inverse operations to check answers 11. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction 	Spring 1, 2 & Summer 1, 2 Core Objective Core Objective Core Objective	
<u>Multiplication and Division</u> <ol style="list-style-type: none"> 12. Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables 13. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and in which n objects and connected to m objects 	Core Objective Spring 2, Summer 1, Summer 2	
<u>Fractions including decimals and percentages</u> <ol style="list-style-type: none"> 14. Count up and down in tenths 15. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit 	Core Objective Spring 1, 2	

<p>fractions with small denominators</p> <p>16. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers of quantities by 10</p> <p>17. Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p> <p>18. Solve problems that involve all of the above</p>	<p>Core Objective</p> <p>Spring 1, 2</p> <p>Core Objective</p>
<p><u>Measurement</u></p> <p>19. Compare duration of events, for example to calculate the time taken by particular events or tasks.</p> <p>20. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m./ morning, afternoon, noon and midnight</p> <p>21. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); Volume/capacity (l/ml)</p> <p>22. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 hour and 24 hour clocks</p> <p>23. Know the number of seconds in a minute and the number of days in each month, year and leap year</p>	<p>Core Objective</p> <p>Core Objective</p> <p>Spring 1, 2 & Summer 1, 2</p> <p>Spring 2, Summer 1</p> <p>Core Objective</p>
<p><u>Geometry</u></p> <p>24. Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four make a whole turn; identify whether angles are greater than or less than a right angle</p>	<p>Spring 1, 2, Summer 1</p>
<p><u>Statistics/Data</u></p> <p>25. Interpret and use data using bar charts, pictograms and tables</p> <p>26. Solve one step and two step questions (e.g. 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables</p>	<p>Spring 1, 2, Summer 1, 2</p> <p>Spring 1, 2, Summer 1, 2</p>
<p><u>Algebra</u></p> <p><i>See addition and subtraction:</i></p> <p>27. <i>Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction</i></p>	<p>Core Objective</p>

Medium Term Plan				
Week 1 Context for Learning:				
1.	2.	3.	4.	5.
Week 2 Context for Learning:				
1.	2.	3.	4.	5.
Week 3 Context for Learning:				
1.	2.	3.	4.	5.
Week 4 Context for Learning:				
1.	2.	3.	4.	5.
Week 5 Context for Learning:				
1.	2.	3.	4.	5.
Week 6 Context for Learning:				
1.	2.	3.	4.	5.

Year 3	Summer 1	
Prior Learning	Key Vocabulary	
Objectives	When else will objective be covered	
<u>Number and Place Value</u> <ol style="list-style-type: none"> 1. Count in multiples in steps of 4, 8, 50 and 100 2. Find 10 or 100 more or less than a given number 3. Compare and order numbers to 1000 4. Identify, represent and estimate numbers using different representations 5. Read and write numbers up to 1000 in numerals and in words 6. Recognise the value of each digit in a three digit number (hundreds, tens and ones) 7. Solve number problems and practical problems involving these ideas. 	Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective	
<u>Addition and Subtraction</u> <ol style="list-style-type: none"> 8. Add and subtract numbers mentally including: a three digit number and ones, a three digit number and tens, a three digit number and hundreds 9. Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction 10. Estimate the answer to a calculation and use inverse operations to check answers 11. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction 	Spring 1, 2 & Summer 1, 2 Core Objective Core Objective Core Objective	
<u>Multiplication and Division</u> <ol style="list-style-type: none"> 12. Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables 13. 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 14. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and in which n objects and connected to m objects 	Core Objective Autumn 1, Spring 1, Summer 1, 2 Spring 2, Summer 1, Summer 2	

<p><u>Fractions including decimals and percentages</u></p> <p>15. Count up and down in tenths</p> <p>16. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers of quantities by 10</p> <p>17. Compare and order unit fractions, and fractions with the same denominators</p> <p>18. Recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>19. Add and subtract fractions with the same denominator within one whole (e.g. $5/7 + 1/7 = 6/7$)</p> <p>20. Solve problems that involve all of the above</p>	<p>Core Objective</p> <p>Core Objective</p> <p>Summer 1, 2</p> <p>Summer 1, 2</p> <p>Summer 1, 2</p> <p>Core Objective</p>
<p><u>Measurement</u></p> <p>21. Compare duration of events, for example to calculate the time taken by particular events or tasks.</p> <p>22. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m./ morning, afternoon, noon and midnight</p> <p>23. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); Volume/capacity (l/ml)</p> <p>24. Add and subtract amounts of money to give change, using both £ and p in practical contexts</p> <p>25. Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12 hour and 24 hour clocks</p> <p>26. Know the number of seconds in a minute and the number of days in each month, year and leap year</p>	<p>Core Objective</p> <p>Core Objective</p> <p>Spring 1, 2 & Summer 1, 2</p> <p>Autumn 1, Spring 1, Summer 1, 2</p> <p>Spring 2, Summer 1</p> <p>Core Objective</p>
<p><u>Geometry</u></p> <p>27. Identify right angles, recognise that two right angles make a half turn, three make three quarters of a turn and four make a whole turn; identify whether angles are greater than or less than a right angle</p> <p>28. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<p>Spring 1, 2, Summer 1</p> <p>Summer 1, 2</p>
<p><u>Statistics/Data</u></p> <p>29. Interpret and use data using bar charts, pictograms and tables</p> <p>30. Solve one step and two step questions (e.g. 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables</p>	<p>Spring 1, 2, Summer 1, 2</p> <p>Spring 1, 2 Summer 1, 2</p>

<p>Algebra <i>See addition and subtraction:</i> 31. <i>Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction</i> 32. <i>Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and in which n objects and connected to m objects</i></p>	<p><i>Core Objective</i> <i>Spring 2, Summer 1, Summer 2</i></p>
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Medium Term Plan				
Week 1 Context for Learning:				
1.	2.	3.	4.	5.
Week 2 Context for Learning:				
1.	2.	3.	4.	5.
Week 3 Context for Learning:				
1.	2.	3.	4.	5.
Week 4 Context for Learning:				
1.	2.	3.	4.	5.
Week 5 Context for Learning:				
1.	2.	3.	4.	5.
Week 6 Context for Learning:				
1.	2.	3.	4.	5.

Year 3	Summer 2	
Prior Learning	Key Vocabulary	
Objectives	When else will objective be covered	
<u>Number and Place Value</u> <ol style="list-style-type: none"> 1. Count in multiples in steps of 4, 8, 50 and 100 2. Find 10 or 100 more or less than a given number 3. Compare and order numbers to 1000 4. Identify, represent and estimate numbers using different representations 5. Read and write numbers up to 1000 in numerals and in words 6. Recognise the value of each digit in a three digit number (hundreds, tens and ones) 7. Solve number problems and practical problems involving these ideas. 	Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective Core Objective	
<u>Addition and Subtraction</u> <ol style="list-style-type: none"> 8. Add and subtract numbers mentally including: a three digit number and ones, a three digit number and tens, a three digit number and hundreds 9. Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction 10. Estimate the answer to a calculation and use inverse operations to check answers 11. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction 	Spring 1, 2 & Summer 1, 2 Core Objective Core Objective Core Objective	
<u>Multiplication and Division</u> <ol style="list-style-type: none"> 12. Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables 13. 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 14. Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and in which n objects and connected to m objects 	Core Objective Autumn 1, Spring 1, Summer 1, 2 Spring 2, Summer 1, Summer 2	

<p><u>Fractions including decimals and percentages</u></p> <p>15. Count up and down in tenths</p> <p>16. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers of quantities by 10</p> <p>17. Compare and order unit fractions, and fractions with the same denominators</p> <p>18. Recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>19. Add and subtract fractions with the same denominator within one whole (e.g. $5/7 + 1/7 = 6/7$)</p> <p>20. Solve problems that involve all of the above</p>	<p>Core Objective</p> <p>Core Objective</p> <p>Summer 1, 2</p> <p>Summer 1, 2</p> <p>Summer 1, 2</p> <p>Core Objective</p>
<p><u>Measurement</u></p> <p>21. Compare duration of events, for example to calculate the time taken by particular events or tasks.</p> <p>22. Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m./ morning, afternoon, noon and midnight</p> <p>23. Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); Volume/capacity (l/ml)</p> <p>24. Add and subtract amounts of money to give change, using both £ and p in practical contexts</p> <p>25. Know the number of seconds in a minute and the number of days in each month, year and leap year</p>	<p>Core Objective</p> <p>Core Objective</p> <p>Spring 1, 2 & Summer 1, 2</p> <p>Autumn 1, Spring 1, Summer 1, 2</p> <p>Core Objective</p>
<p><u>Geometry</u></p> <p>26. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines</p>	<p>Summer 1, 2</p>
<p><u>Statistics/Data</u></p> <p>27. Interpret and use data using bar charts, pictograms and tables</p> <p>28. Solve one step and two step questions (e.g. 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables</p>	<p>Spring 1, 2, Summer 1, 2</p> <p>Spring 1, 2 Summer 1, 2</p>
<p><u>Algebra</u></p> <p><i>See addition and subtraction:</i></p> <p>29. Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction</p> <p>30. Solve problems, including missing number problems, involving multiplication and division,</p>	<p>Core Objective</p> <p>Spring 2, Summer 1, Summer 2</p>

<i>including positive integer scaling problems and in which n objects are connected to m objects</i>	
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Medium Term Plan				
Week 1 Context for Learning:				
1.	2.	3.	4.	5.
Week 2 Context for Learning:				
1.	2.	3.	4.	5.
Week 3 Context for Learning:				
1.	2.	3.	4.	5.
Week 4 Context for Learning:				
1.	2.	3.	4.	5.
Week 5 Context for Learning:				
1.	2.	3.	4.	5.
Week 6 Context for Learning:				
1.	2.	3.	4.	5.