

Brackenwood Junior School

Maths

Long Term Plan

Y5

2023/24

| **Each week of each half term** | **1** | **2** | **3** | **4** | **5** | **6** |
| --- | --- | --- | --- | --- | --- | --- |
| Times table chants(tricky facts) | **4 x 12 and 12 x 4**•At the park with my mate… 4 times 12 is 48•I left the park a little late… 12 times 4 is 48**11 x 11**•Fancy going for a run… 11, 11s is 1-2-1**7 x 8 and 8 x 7**•My house is made of bricks… 7 times 8 is 56•This old house needs a fix… 8 times 7 is 56 | **4 x 6 and 6 x 4**•Please sir, can I have some more?… 4 times 6 is 24•More made my belly sore… 6 times 4 is 24**7 x 7****•**This one’s my favourite rhyme… 7 times 7 is 49**8 x 9 and 9 x 8****•**Get in line, there’s a queue… 8 times 9 is 72•This long line will not do… 9 times 8 is 72 | **8 x 8** •I ate and ate ‘til I was sick on the floor… 8 times 8 is 64**9 x 12 and 12 x 9** •Saving the world is our fate… 9 times 12 is 108•A beautiful world we’ll create… 12 times 9 is 108 **6 x 7 and 7 x 6** •Fancy a trip to the zoo? 6 times 7 is 42•At the zoo, I saw some poo… 7 times 6 is 42 | **6 x 8 and 8 x 6** •At the doctor’s, I had a long wait… 6 times 8 is 48•The doctor said her name was Kate… 8 times 6 is 48**6 x 12 and 12 x 6**• Above the clouds, the bird flew… 6 x 12 is 72• The bird had an amazing view… 12 times 6 is 72**4 x 7 and 7 x 4** • Zooming down, I roller-skate… 4 times 7 is 28•Hurtling down towards the gate… 7 times 4 is 28 | **12 x 12** •What’s that running past the door? 12 times 12 is 1-4 -4**8 x 12 and 12 x 8**•I saw a magician doing tricks… 8 times 12 is 96• This magician had magic sticks… 12 times 8 is 96**6 x 9 and 9 x 6** • Digging down to the core… 6 times 9 is 54•I had to dig more and more… 9 times 6 is 54 | **4 x 8 and 8 x 4** • Where’s my car? It’s brand new… 4 x 8 is 32• My new car is shiny blue… 8 times 4 is 32**7 x 12 and 12 x 7**• Carrots taste great, that’s for sure… 7 times 12 is 84• Crunchy carrots, I want more! … 12 times 7 is 84**11 x 12 and** **12 x 11** •Is that the train leaving for Crewe? … 11 x 12 is 1-3-2•Before the train, let’s grab a brew… 12 x 11 is 1-3-2 |

| Autumn 1Week | 1 | 2 | 3 | 4 | 5 | 6 |
| --- | --- | --- | --- | --- | --- | --- |
| Power maths unit | Unit 1: Place value within 100,000 | Unit 1 to 2 | Unit 2: Place value within 1,000,000 | Unit 3: Addition and subtraction | Unit 3: Addition and subtraction | Unit 4: Multiplication and division |
| Arithmetic | Half termly test – rising stars Base line assessment of arithmetic passportAdd and subtract numbers mentally. | Add and subtract numbers mentally  | Add whole numbers with more than 4 digits, using formal written methods. | Subtract whole numbers with more than 4 digits, using formal written methods. | Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 | Use rounding to check answers to calculations |
| Times tables to teach and assess | TT test out of 992, 4, 5, 10  | 2, 4, 5, 10 and division facts | 3, 6, 9  | 3, 6, 9 and division facts | 8 and division facts | 7 and division facts |

| Autumn 2Week | 1 | 2 | 3 | 4 | 5 | 6 |
| --- | --- | --- | --- | --- | --- | --- |
| Power maths unit | Unit 4: Multiplication and division | Unit 5: Fractions | Unit 5: Fractions | Unit 6: Fractions | Unit 6: Fractions | Assessment weekRevision/catch up |
| Arithmetic | Half termly test – rising stars Multiply and divide numbers mentally drawing upon known facts | Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers | Add and subtract numbers mentally with increasingly large numbers | Divide numbers up to 4 digits by a one-digit number using the formal written method of short division | Multiply and divide whole numbers and decimals by 10, 100 and 1000 | Divide numbers up to 4 digits by a one-digit number using the formal written method of short division |
| Times tables to teach and assess | 11 and division facts | 12 and division facts | 7, 9, 11, 12 | 7, 9, 11, 12 | All times tables | TT test out of 99All times tables |

| Spring 1Week | 1 | 2 | 3 | 4 | 5 | 6 |
| --- | --- | --- | --- | --- | --- | --- |
| Power maths unit | Unit 7: Multiplication and division (2) | Unit 7: Multiplication and division (2) | Unit 8: Fractions  | Unit 8 and 9 | Unit 9: decimals and percentages | Unit 9: decimals and percentages |
| Arithmetic | Half termly test – rising stars Relate place value knowledgeEg. 5x6= 30 so 5x600=3000 | Add and subtract fractions with the same denominator and denominators that are multiples of the same number. | Multiply proper fractions and mixed numbers by whole numbers | Find fractions of numbers eg. 3/8 of 400 | Know number bonds to 100, 1000Know number bonds of decimals | Know doubles and halves of decimals |
| Times tables to teach and assess | TT test out of 992, 4, 5, 10  | 2, 4, 5, 10 and division facts | 3, 6, 9  | 3, 6, 9 and division facts | 8 and division facts | 7 and division facts |

| Spring 2Week | 1 | 2 | 3 | 4 | 5 | 6 |
| --- | --- | --- | --- | --- | --- | --- |
| Power maths unit | Unit 10: measure perimeter, area | Unit 10: measure perimeter, area | Unit 11:Graphs and tables | Unit 11:Graphs and tables | Class need | Assessment weekRevision/catch up |
| Arithmetic  | Half termly test – rising stars Recognise square numbers to 12 x12 | Recall cube numbers to 5Divide 1000, 100 and 1 into 2, 4, 5 and 10 equal parts | Find percentages of numbers in multiples of 5 and 10. Including, half, quarter, fifth, two fifths and four fifths | Can mentally add two decimal numbers to one decimal place | Multiply and divide whole numbers and decimals by 10, 100 and 1000 |
| Times tables to teach and assess | 11 and division facts | 12 and division facts | 7, 9, 11, 12 | 7, 9, 11, 12 | All times tables | TT test out of 99All times tables |

| Summer 1Week | 1 | 2 | 3 | 4 | 5 | 6 |
| --- | --- | --- | --- | --- | --- | --- |
| Power maths unit | Unit 12: Geometry - properties of shapes | Unit 12: Geometry - properties of shapes | Unit 12 and 13 | Unit 13: Geometry - position and direction | Unit 14: Decimals | Unit 14: Decimals |
| Arithmetic | Half termly test – rising stars. Test analysis  | Add and subtract fractions with the same denominator and denominators that are multiples of the same number. | Multiply proper fractions and mixed numbers by whole numbers | Add and subtract whole numbers and decimals with more than 4 digits, using formal written methods. | Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers | Use missing number questions for 4 operations to consolidate inverse |
| Times tables to teach and assess | TT test out of 992, 4, 5, 10  | 2, 4, 5, 10 and division facts | 3, 6, 9  | 3, 6, 9 and division facts | 8 and division facts | 7 and division facts |

| Summer 2Week | 1 | 2 | 3 | 4 | 5 | 6 |
| --- | --- | --- | --- | --- | --- | --- |
| Power maths unit | Unit 14: Decimals | Unit 15: Negative numbers | Unit 16: Measure - converting units | Unit 16: Measure - converting units | Unit 17: Measure - volume | Assessment weekRevision/catch up |
| Arithmetic | Half termly test – rising stars. Test analysis | Divide numbers up to 4 digits by a one-digit number using the formal written method of short division | Multiply proper fractions and mixed numbers by whole numbers | Find fractions of numbers eg. 3/8 of 400 | Revision/ mixed questions | Revision / mixed questions |
| Times tables to teach and assess | 11 and division facts | 12 and division facts | 7, 9, 11, 12 | 7, 9, 11, 12 | All times tables | TT test out of 99All times tables |