Kindergarten Parent Numeracy Checklist

YEAR K

In Kindergarten, children work towards the following key skills. How confident is your child with the skills on this checklist? If you'd like help to help your child with these skills, you've come to the right place!

Your child will be learning the skills on this checklist throughout the year. There is no specific order to learning them and you can revisit them at any time.

Whole Numbers

- ☐ 1 Count forwards and backwards to 30 from any number
- ☐ 2 Read the numbers 0 to 20
- ☐ 3 Compare and order numbers 0 to 20 (from largest to smallest and vice versa)
- ☐ 4 Read and use numbers to describe their place in an order to 10th (e.g. 1st, 2nd, 3rd)
- ☐ 5 Subitise small collections of objects
- ☐ 6 Use the phrase 'is the same as' to show equal groups
- ☐ 7 Recognise different coins and notes of Australian currency
- ☐ 8 Combine 2 or more groups of objects to show addition

Addition and Subtraction

- ☐ 9 Recognise and remember number combinations that add up to 10
- ☐ 10 Take part of a group away to show subtraction
- ☐ 11 Compare 2 groups to work out 'how many more'
- ☐ 12 Show addition and subtraction using drawings, words and numbers

Multiplication and Division

- ☐ 13 Explore, make and show equal groups
- ☐ 14 Use the word 'sharing' when dividing a group of objects

Fractions and Decimals

- ☐ 15 Understand what one-half means
- ☐ 16 Show halves of objects using drawings

Patterns and Algebra

- ☐ 17 Sort and classify objects into groups
- ☐ 18 Work with shapes, objects and pictures to recognise, copy, continue and make patterns

Year 1 Parent Numeracy Checklist

YEAR 1

In Year 1, children work towards the following key skills. How confident is your child with the skills on this checklist? If you'd like to help your child with these skills, you've come to the right place!

Your child will be learning the skills on this checklist throughout the year. There is no specific order to learning them and you can revisit them at any time.

Whole Numbers

- ☐ 1 Count forwards and backwards by 1s from any number higher than 10
- ☐ 2 Identify the place value of digits in numbers
- ☐ 3 Read and write the numbers 0 to 99 (2-digit numbers)
- ☐ 4 Compare and order a group of numbers from 0 to 99 (2-digit numbers) from smallest to largest and vice versa
- ☐ 5 Read and use numbers to describe their place in an order to 31st (e.g. 1st, 2nd, 3rd etc.)
- ☐ 6 Recognise, describe and order Australian coins according to their value

Addition and Subtraction

- ☐ 7 Demonstrate addition and subtraction using pictures and objects
- ☐ 8 Recognise and remember number combinations that add up to 20
- ☐ 9 Demonstrate that numbers can be added in any order, e.g. 3 + 4 = 7 and 4 + 3 = 7
- ☐ 10 Write maths questions using drawings, words, numbers and the symbols +, – and = (e.g. 1 + 1 = 2, five minus three equals 2)
- ☐ 11 Mentally add and subtract 1-digit and 2-digit numbers. Explain how they worked out their answer in their head
- ☐ 12 Use the equals sign, and know that the total of the numbers on both sides must have the same value

Multiplication and Division

- ☐ 13 Skip count out loud by 2s, 5s and 10s starting at 0
- ☐ 14 Make and use equal groups as a strategy to multiply
- ☐ 15 Make and use equal groups as a strategy to divide

Fractions and Decimals

- ☐ 16 Show what half an object is. Know that a half is 2 equal parts of a whole
- ☐ 17 Use the symbol $\frac{1}{2}$ to describe a half

Patterns and Algebra

- ☐ 18 Show and explain odd and even numbers
- ☐ 19 Work with number patterns with increasing or decreasing numbers to identify, continue and explain patterns
- ☐ 20 Work with patterns of objects or symbols to identify, continue and explain patterns

Year 2 Parent Numeracy Checklist

YEAR 2

In Year 2, children work towards the following key skills. How confident is your child with the skills on this checklist? If you'd like help to help your child with these skills, you've come to the right place!

Your child will be learning the skills on this checklist throughout the year. There is no specific order to learning them and you can revisit them at any time.

Whole Numbers

- ☐ 1 Skip count forwards and backwards by 2s, 3s, 5s and 10s from any starting point
- ☐ 2 Read, write and order the numbers 0 to 999 (3-digit numbers)
- ☐ 3 Break apart numbers up to 999 (3-digit numbers) using place value
- ☐ 4 Recognise, count and order Australian coins and notes according to their value

Addition and Subtraction

- ☐ 5 Make connections between addition and subtraction. This is called inverse operations
- ☐ 6 Use and write a range of mental strategies for addition and subtraction of 2-digit numbers
- ☐ 7 Solve word problems involving addition and subtraction

Multiplication and Division

- ☐ 8 Use repeated addition as a strategy for multiplication
- ☐ 9 Create and use arrays described in terms of 'rows' and 'columns' as a strategy for multiplication
- ☐ 10 Create and use groups, arrays and repeated subtraction as strategies for division
- ☐ 11 Create answers using drawings, words and numerals

Fractions and Decimals

- ☐ 12 Recognise, describe and represent halves, quarters and eighths of whole objects, shapes and collections
- ☐ 13 Use fraction notation

Patterns and Algebra

- ☐ 14 Describe patterns with numbers and identify missing numbers
- ☐ 15 Find missing numbers in number sentences involving 1 operation of addition or subtraction

Year 3 Parent Numeracy Checklist

YEAR 3

In Year 3, children work towards the following key skills. How confident is your child with the skills on this checklist? If you'd like help to help your child with these skills, you've come to the right place!

Your child will be learning the skills on this checklist throughout the year. There is no specific order to learning them and you can revisit them at any time.

Whole Numbers

- ☐ 1 Skip count forwards and backwards by 10s and 100s from any starting point
- ☐ 2 State the place value of digits in numbers of up to 9 999 (4-digit numbers)
- ☐ 3 Read, write and order numbers of up to 9 999 (4-digit numbers)

Addition and Subtraction

- ☐ 4 Show that numbers can be added in any order to arrive at the same total. This is the associative law
- ☐ 5 Use the jump strategy to add and subtract
- ☐ 6 Use the split strategy to add and subtract
- ☐ 7 Use the compensation strategy to add and subtract
- ☐ 8 Perform calculations with money
- ☐ 9 Use the equals sign to record number sentences that are equal on both sides

Multiplication and Division

- ☐ 10 Recall multiplication facts for 2s, 3s, 5s and 10s
- ☐ 11 Write number sentences using the symbols x (multiply), ÷ (divide) and = (equals)
- ☐ 12 Link multiplication and division using arrays
- ☐ 13 Show and apply the commutative law for multiplication
- ☐ 14 Use mental strategies to multiply 1-digit numbers by multiples of 10
- ☐ 15 Use and write mental strategies for multiplication of 2 x 1-digit numbers

Fractions and Decimals

- ☐ 16 Model and show fractions with denominators 2, 3, 4, 5 and 8
- ☐ 17 Count by halves, quarters and thirds, including with mixed numerals
- ☐ 18 Show fractions on number lines, including number lines that go past 1

Patterns and Algebra

- ☐ 19 Work with number patterns, including identifying, describing, continuing and creating patterns
- ☐ 20 Identify odd and even numbers up to 9 999 (4-digit numbers)

Year 4 Parent Numeracy Checklist

YEAR 4

In Year 4, children work towards the following key skills. How confident is your child with the skills on this checklist? If you'd like help to help your child with these skills, you've come to the right place!

Your child will be learning the skills on this checklist throughout the year. There is no specific order to learning them and you can revisit them at any time.

Whole Numbers

- ☐ 1 State the place value of digits in numbers up to 99 999 (5-digit numbers)
- ☐ 2 Read, write and order numbers up to 99 999 (5-digit numbers) in ascending and descending order
- ☐ 3 Record numbers up to 99 999 (5-digit numbers) using expanded notation
- ☐ 4 Round numbers to the nearest 10, 100, 1 000 or 10 000

Addition and Subtraction

- ☐ 5 Use the inverse operation to check addition and subtraction questions
- ☐ 6 Use and record a range of mental strategies for addition and subtraction of numbers up to 99 999 (5-digit numbers)
- ☐ 7 Use the formal algorithm for addition and subtraction
- ☐ 8 Solve word problems, including those involving money

Multiplication and Division

- ☐ 9 Recall and use multiplication facts (times tables) up to 10×10
- ☐ 10 Relate multiplication facts to their inverse division facts
- ☐ 11 Determine multiples of whole numbers
- ☐ 12 Determine factors of whole numbers
- ☐ 13 Use the equals sign to show equivalent number relationships involving multiplication
- ☐ 14 Use a range of strategies to multiply and divide 2-digit numbers by a 1-digit number
- ☐ 15 Use mental strategies for division with remainders

Fractions and Decimals

- ☐ 16 Model and find equivalent fractions with denominators 2, 4 and 8; 3 and 6; and 5, 10 and 100
- ☐ 17 State the place value of tenths and hundredths in decimals
- ☐ 18 Make connections between fractions and decimals
- ☐ 19 Model, compare and show decimals with 1 and 2 decimal places
- ☐ 20 Show decimals on number lines

Patterns and Algebra

- ☐ 21 Find missing numbers in number sentences involving addition or subtraction on 1 or both sides of the equals sign
- ☐ 22 Investigate and use the features of odd and even numbers
- ☐ 23 Find, continue and describe number patterns that use multiplication
- ☐ 24 Find missing numbers in number sentences involving 1 operation of multiplication or division

Year 5 Parent Numeracy Checklist

YEAR 5

In Year 5, children work towards the following key skills. How confident is your child with the skills on this checklist? If you'd like help to help your child with these skills, you've come to the right place!

Your child will be learning the skills on this checklist throughout the year. There is no specific order to learning them and you can revisit them at any time.

Whole Numbers

- ☐ 1 Deal with numbers as big as 10 million by reading, writing, ordering and stating the place value of digits
- ☐ 2 Record numbers using expanded notation
- ☐ 3 Find all the factors of a number
- ☐ 4 Find the multiples of a number

Addition and Subtraction

- ☐ 5 Use mental strategies to add and subtract 2 or more numbers
- ☐ 6 Use the formal algorithm to add and subtract 2 or more numbers
- ☐ 7 Use a calculator to add and subtract 2 or more numbers of any size
- ☐ 8 Use rounding to estimate the answer to addition and subtraction problems
- ☐ 9 Solve word problems and record the strategy used

Multiplication and Division

- ☐ 10 Use and record a range of mental and written strategies to multiply by 1-digit and 2-digit operators
- ☐ 11 Use the formal algorithm to multiply a 2-digit or 3-digit number by a 1-digit number
- ☐ 12 Use mental and written strategies to divide numbers with 3 or more digits by a 1-digit operator, including remainders
- ☐ 13 Solve word problems and record the strategy used
- ☐ 14 Explain remainders in division problems
- ☐ 15 Use rounding to estimate answers and check the calculation

Fractions and Decimals

- ☐ 16 Compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100
- ☐ 17 Convert a mixed numeral to an improper fraction and vice versa
- ☐ 18 Add and subtract fractions with the same denominator
- ☐ 19 State the place value of digits up to 3 decimal places
- ☐ 20 Compare, order and write decimals with up to 3 decimal places

Patterns and Algebra

- ☐ 21 Identify, describe, continue and create number patterns with whole numbers, fractions or decimals
- ☐ 22 Find missing numbers in number sentences (equations) involving addition, subtraction, multiplication or division on both sides of the equals sign

Year 6 Parent Numeracy Checklist

YEAR 6

In Year 6, children work towards the following key skills. How confident is your child with the skills on this checklist? If you'd like help to help your child with these skills, you've come to the right place!

Your child will be learning the skills on this checklist throughout the year. There is no specific order to learning them and you can revisit them at any time.

Whole Numbers

- ☐ 1 Find negative numbers on a number line
- ☐ 2 Identify and describe prime numbers and composite numbers
- ☐ 3 Create and describe square numbers and triangular numbers

Addition and Subtraction

- ☐ 4 Solve addition and subtraction word problems

Multiplication and Division

- ☐ 5 Solve multiplication and division word problems
- ☐ 6 Identify and use grouping symbols
- ☐ 7 Apply the order of operations

Fractions and Decimals

- ☐ 8 Show, compare and order fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12 and 100
- ☐ 9 Find, create and write equivalent fractions
- ☐ 10 Write fractions in their simplest form
- ☐ 11 Add and subtract fractions, including mixed numerals, with the same denominators
- ☐ 12 Find a simple fraction of a group
- ☐ 13 Add and subtract decimals up to 3 decimal places
- ☐ 14 Multiply and divide decimals by 1-digit and 2-digit whole numbers
- ☐ 15 Multiply and divide decimals by 10, 100 and 1000
- ☐ 16 Solve word problems involving fractions, decimals and money problems
- ☐ 17 Convert between equivalent percentages, fractions and decimals
- ☐ 18 Calculate 10%, 25% and 50% of amounts, including as discounts

Patterns and Algebra

- ☐ 19 Find and apply the rule for geometric patterns and number patterns
- ☐ 20 Locate and record the coordinates of points in all 4 quadrants of the Cartesian plane