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| **Number and Place Value** |
| **Nursery** | **Reception** | **Year 1** | **Year 2** | **Year 3** | **Year 4** | **Year 5** | **Year 6** |
| More More than Fewer than Lots Same Numbers up to ten | One more thanOne less thanPlaceOrderNumberCountNumbers up to twentyNumber lineAnswerEqualsReadWritePart-whole modelTen Frame | Forwards Backwards Numerals Words Multiples Equal Most Least IdentifyRepresent Digit Calculate Odd Even Pattern Numbers up to one hundredSteps Ones, twosTwo- digit | OnesTensTwo- digitEstimatePlace ValueSolveProblemsGreater than >Less than <Nearest tenNumber factsPartitionCount in stepsZeroCompareDetermineValue | HundredsThree-digitten moreone hundredmoreten lessone hundredlessNumbers up toone thousandAscendingDescendingPositionRomanNumeral I to XII (analogue clock) | ThousandsFour- digitNegativenumberOne thousandmoreOne thousandlessRomanNumeral1 I 2 II 3 III 4 IV 5 V 6 VI 7 VII 8 VIII 9 IX 10 X 50 L 100 C 500 D 1000 MDecimalDecimal placeRoundingPlace holderNearest tenNearesthundredNearestthousandOne placeWhole numberIntegerTenthsHundredths | Ten thousandsHundredthousandsMillionsContextSteps of powersDecimalequivalentsTwo decimalplacesThousandthsNumbers up toone millionBenchmarksMidpoint | Intervals acrosszeroThree decimalplacesHundredthsThousandthsTenthousandthsNumbers up totenmillion |
| **Addition and Subtraction** |
| AltogetherLeftNumber story | Addsubtractdoubledoublingnumber patternsobjectsgroupsnumber sentencetake awayhow many are left/leftover?how many havegone?one lesshow many fewer is …than …?how much less is …?difference betweenequals | One stepproblemConcreteobjectPictorialrepresentationMissing numberProblemReadWriteInterpretEquals =SignsOne-digitTwo-digitOnesMentalMentallyInverseWhole number | ColumnadditionColumnSubtractionTensOrderInverseRelationshipCalculationSolve problemsMissing numberproblemsQuantitiesMeasuresFormal WrittenmethodMental methodMethodOperationApplyWhole number | Three-digitnumberHundredsEstimateNumber facts100 moreincreaseadjustingestimateboundaryadjust near doublecombine100 lessdecreaseexchangeregroupnumber sentencecalculatefact family | Two stepproblemsContextFour-digit number Roman Numerals1000 more1000 lessThousandsWhole number | Increasinglylarge numbersMore than 4digitsDetermineContextMulti-stepProblemsOne decimal placeTwo decimal placesRounding to/ Round to the nearest | EstimationMixedoperations |
| **Multiplication and Division** |
|  |  | multiplicationmultiplied bymultiplylots ofgroups ofscalingtwicetimes as ...arraymultiplecount upshare intodivisiondividinggroupingcount backunequalequal | times tablemultiplicationfact familyoddevencommutativemultiplication factmultiplication tablerepeated additionmultiple of 2multiple of 5multiple of 10multiplyarrayrow columninversedivide, divided by,divided intoleft, left overrepeated subtraction | missing numberscalingmultiplied by... times larger/smallerproducttimes table factsfact familypartitiongridremainderpartitioninverse operation | factorfactor paircompact methodshort multiplicationquotientdivisordividendfactorsquotientdivisordividendfactors | prime numbercomposite numbermultiplecommon factorcommon multiplesquare numbercube numbersquared,cubedlong multiplicationexpanded methodmultipliercompact shortscale downtest of divisibility | approximateformulatermorder ofoperationsprecedencebracketsbracketsbalanceorder ofoperationsprecedence |
| **Fractions (including decimals and percentages)** |
|  |  | Fraction HalfEqualparts One whole Object Shape Quantity QuarterWhole | Simple fractions Equivalent Equivalence Count | TenthsUnit fractionsNon- unit fractionsNumeratorDenominatorCompareOrderAddSubtractSolve problems | HundredthsDecimalDecimal placeOne decimal placeTwo decimal placesRound decimalsWhole numberCommon equivalent fractions Decimal equivalentsDividing OnesTenthsHundredthsSimple measureMoney problems | ThousandthsMultiplesThree decimal placesPer centOut of 100Number of parts per hundredPercentagesDecimal fractionMixed numbersImproper fractionProper fractionConvertMathematical StatementsMultiplyPercentage and decimal equivalents | Common factorsCommon multiplesDecimal fraction equivalentsSimplest form |
| **Measurement** |
| biggerlittlesmallerhighlow tallheavybig smalllonglongerlongest | MeasureMeasurementSizeWeightCapacityCompareSolveProblemsObjectLengthlong tallshortlongestshortestlightfull empty more less | LengthHeightLongShortLongerShorterTallDoubleHalfMassLightHeavier thanLighter thanVolumeHalfHalf fullQuarterQuicker thanSlower thanEarlierLaterpound pence2p,5p,10p 20p, 50p £1 £2long hand short handhour o’clockhalf pasthalf hourmonths of the year quickestslowest tomorrow yesterday dayweekmonthyear minutesecondcalendar chronological ordertell the timeBeforeAfterNextFirstTodayMorningAfternoonEvening | Greater than >Less than <Equals =IntervalsStandard unitsEstimateDirectionTemperatureUnitScalesRulersThermometersMeasuring vesselsMetres (m)Centimetres (cm)Kilograms (kg)Grams (g)Degrees CelsiusLitres (l)Millilitres (ml)SymbolsMoneyPounds (£)Pence (p)Different combinationsChangeAnalogue ClockDigital ClockFive pastTen pastQuarter pastTwenty pastTwenty-five pastHalf pastTwenty-five toTwenty toQuarter toTen toFive to | DurationConvertTime takenNearest minuteRecordSecondsa.m.p.m.noonmidnightmiddaykilometreaddsubtractmillimetresperimetersimple 2-D shapesanalogue clockroman numerals12-hour24-hourLeap year | EstimateRectilinear figureAreaRectilinear shapesConvert | Square centimetres (cm2)Square metres (m2)Irregular shapesVolume (cm3)CubesCuboidsSquare numbersCube numbersMetric measureMetric unitsImperial unitsInchesPoundsPints | Decimal notationCubic centimetres (cm3)Cubic metres (m3)Cubic millimetre (mm3)Cubic kilometre (Km3)Decimal places formulaeMiles |
| **Geometry-Properties of shapes** |
| CornersStraightFlat Fat shapesRoundSquareRectangleCircleTriangleSide | cubecuboidspherepyramidcornersprismfaces2D shapes3D shapescone | Two DimensionalThree DimensionalPyramidCylinderEdgesFacesVertices/vertex | PropertiesCompareCommonLine symmetryPentagonHexagonHeptagonOctagonNonagonDecagonPolygonTrapeziumSquare-based pyramid Triangular pyramidTriangular prismRectangular prismPentagonal prismHexagonal prismOctagonal prism | AngleRight anglesHorizontal linesVertical linesPerpendicular linesParallel lines ParallelogramQuadrilateralKiteRhombus | Lines of symmetrySymmetric figureClassifyGeometric shapesAcute angleObtuse angleisosceles triangle scalene triangle equilateral triangle | AnglesMeasureDegreesMissing lengthsMissing anglesRegular polygonsIrregular polygonsDegreesEstimate compareReflex anglePointStraight lineMultiples | RadiusDiameterCircumferenceNets |
| **Geometry- Position and Direction** |
| in front behindon top of underabovebelow next toin the middle of | PositionDistance DirectionMoveMovementPatterns | Half turnQuarter turnThree-quarter turnLeftRightUp | RotationRight angleClockwiseAnti-clockwiseOrderArrangeSequence | AngleTurnRight anglesQuarter of a turnHalf-turnThree quarters of a turnComplete turnHorizontal linesVertical linesPerpendicular lines | Co-ordinatesQuadrantGridTranslateTranslationAxisX- axisY-axisSpacesUnitPlotPointPolygon | Reflection  | Four quadrants |
| **Statistics** |
|  |  | tally chartpictogramsorttitle chart | InterpretConstructPictogramTally chartBlock diagramsHorizontalVertical x- axis y-axiskeytitlechart titleSimple tablesAskAnswerQuestionsCountingObjectsCategorySortQuantityTotalCompareDatamost/leastpopularmost/leastcommon | PresentPresentedGraphStatisticsBar chartsTablesSolveOne- step questionsTwo- step questionsInformation | Time graphsComparisonProblems | TimetablesLine graph | Pie chart CalculateMeanAverage |
| **Algebra** |
|  |  | SolveOne-step problemMissing numberCheckCalculateproblemSequenceChronological Pattern | InverseRelationshipCompareOrderArrange |  | PerimeterAlgebraAlgebraically | PropertiesDeduceRelated factsMissing lengthsMissing angles | Missing numberProblemPairsNumber sentenceVariablesCombinationPossibilityEquationFormulaeGenerateLinear number SequenceNth Term |
| **Ratio and Proportion** |
|  |  |  |  |  |  |  | Ratio ProportionSizeQuantityMissing valueIntegerMultiplicationDivisionMultiplyDivideSolveProblemCalculatePercentageComparisonUnequal sharingGroupingFractionsMultiples |