# INDEX CARD: YEAR 6

**Dig1t** games

*Bold numbers indicate games within this year pack.

| NATIONAL CURRICULUM TARGET | GAME No. | GAME TITLE | NOTES | Easier Versions* | More Challenging Versions* |
|---|---|---|---|---|---|
| **NUMBER AND PLACE VALUE** | | | | | |
| Read, write, order and compare numbers up to… | **N601** | Ordering Numbers up to 10million | | N501 | |
| | **N602** | Comparing Numbers up to 10million | Includes greater/less than symbols | N502 | |
| Round any whole number to a required degree of accuracy | **N603** | Rounding any Whole Number… | | N506 – N507 (different game type) | |
| Use negative numbers… | **N604 – N605** | Adding and Subtracting with Negative Numbers | | N504 – N505 | |
| Solve number problems involving all of the above | | | Refer to Questions and Challenges N601 – N605 | | |
| **ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION** | | | | | |
| Multiply multi digit numbers… | **N606 – N608** | Multiplying 2, 3 and 4-digit numbers by 2-digit numbers | | N523 | |
| Divide numbers up to 4 digits. | **N609** | Dividing by 2 to 12 with Remainders | | N531 | |
| | **N610** | Interpreting Remainders | | N535 – N537 | |
| | **N611 – N612** | Dividing 3 and 4-digit by 2-digit numbers | | N532 – N534 | |
| | **N613** | Rounding Division | Dividing and then rounding the answer to the nearest whole number | N530 | |
| Perform mental calculations… | **N614** | Estimating with Multiplication | Rounding to the nearest 10 before multiplying in your head | N518 | |
| Identify common factors/multiples and prime numbers | **N615 – N617** | Common Factors, Common Multiples and Prime Numbers | | N520 | |
| Use their knowledge of the order of operations… | **N618** | Missing Number Problems | Need to be familiar with the order of operations to play this game | N479 | |
| | **N619 – N620** | Calculations with Mixed Operations | | | N619 – N620 are differentiated |
| | **N621** | The Four Operations | Uses the 4 operations to achieve a target number | N542 | |
| Solve addition and subtraction multi step problems… | **N622** | Mind the Gap | Solving a problem involving addition and subtraction | N519 | |
| Solve problems involving addition/subtraction/multiplication/division | **N623** | New Books Please | Solving a problem involving all 4 operations | **N622** | |
| Use Estimation to check answers to calculations. | Refer to **N603, N613, N614** | | | | |
| **FRACTIONS (INCLUDING DECIMALS AND PERCENTAGES)** | | | | | |
| Use common factors to simplify fractions… | **N624** | Simplifying Fractions | | N549 – N550 | |
| | **N625** | Equivalent Fractions | | N548 | |
| …use common multiples to express fractions in the same denomination | **N626** | Using Common Multiples to Add Unit Fractions | | N484 | |
| Compare and order fractions… | **N627** | Fractions on a Number Line | | N544 | |
| | **N628** | Ordering Fractions | | N547 | |
| Add and subtract fractions with different denominators… | **N629 – N630** | Add and Subtract Fractions/Mixed Numbers | | N552 – N554 | |
| Multiply simple pairs of proper fractions… | **N631** | Multiplying Fractions 1 | | N555 (different game type) | N632 (different game type) |
| | **N632** | Multiplying Fractions 2 | | N556 & **N631** (different game type) | |
| Divide proper fractions by whole numbers | **N633** | Divide Fractions by Whole Numbers | | | |
| Associate a fraction with division… | **N634** | Unit Fraction Quantities | Working backwards to find the whole quantity | N545 | |
| … and calculate decimal fraction equivalents… | **N635** | Fractions to Decimals | | N557 | |
| Identify the value of each digit in numbers given to 3 decimal places… | **N636** | Comparing Decimals | Includes comparing decimals and identifying place values | N561 (different game type) | |
| …and multiply and divide numbers by 10/100/1000… | **N637** | Multiplying or Dividing by 10/100/1000 | | N538 (different game type) | |
| Multiply 1-digit numbers with up to 2dp by whole numbers | **N638 – N641** | Multiplying Decimals by Whole Numbers | | | N638 – N641 are differentiated |
| | **N642** | Multiplying Decimals | Multiplying decimals by decimals | | |
| Use written division methods…. | **N643 – N646** | Division with Decimals | Keeping a cumulative score of either the tenths or hundredths values | | N643 – N646 are differentiated |
| Solve problems which require answers to be rounded… | **N647** | Rounding to a Specified Degree of Accuracy | | N559 (different game type) | |
| | **N648** | Estimating Answers | Estimating answers to divisions involving decimals | **N613** | |
| Recall and use equivalences between simple fractions… | **N649 – N650** | Fractions, Decimals and Percentages | | N566 | |
| | **N651** | Converting between Percentages, Decimals and Fractions | | N567 (different game type) | |
| **RATIO AND PROPORTION** | | | | | |
| Solve problems involving the relative sizes of 2 quantities… | **N652** | Chocolate Chip Cookies | Working out amounts of ingredients needed | N543 | |
| Solve problems involving the calculation of percentages… | **N653 – N654** | Calculating Percentages | | | N653 – N654 are differentiated |
| | **N655** | Percentages/Decimals/Fractions | Calculating and comparing | | |
| | **N656** | Percentages of 360 degrees | | | |
| Solve problems involving similar shapes | **N657** | Similar Shapes | Working out missing side of an enlargement | | |
| Solve problems involving unequal sharing and grouping… | **N658** | Unequal Sharing and Grouping | | | |
| **ALGEBRA** | | | | | |
| Use simple formulae | **N659** | Expressions | Involves substitution | | |
| | **N660** | Equations | Solving equations | | |
| Generate and describe linear number sequences | **N661** | Number Sequences | | | |
| | **N662** | Generating Number Sequences | | | |
| Express missing number problems algebraically | **N663 – N664** | Equivalent Expressions | Recognising equivalent expressions | | N663 – N664 are differentiated |
| Find pairs of numbers that satisfy… | **N665 – N666** | Equation with 2 unknowns | Generating and solving equations that have 2 unknown values | | N665 – N666 are differentiated |
| Enumerate possibilities of combinations of 2 variables | Refer to **N665 – N666** | | | | |