Year 5 Number: Addition and Subtraction

National Curriculum Aims

- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- add and subtract numbers mentally with increasingly large numbers
- use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Key Vocabulary

Addition	Finding the total of two numbers when added together(total, plus, sum, add
subtraction	Taking one number away from another number.(Take-away, minus, deduct)
Place Value	The value of **where** a digit is in the number.
Digit	A single symbol used to make a number **(0, 1, 2, 3, 4, 5, 6, 7, 8** and **9** are the ten digits we use)
Operation	A mathematical process. The most common are add, subtract, multiply and divide (+, −, ×, ÷)
Difference	The result of subtracting one number from another.
Inverse Operation	The operation that reverses the effect of another operation.
Rounding	Rounding means making a number simpler but keeping its value close to what it was.
Estimate	To find a value that is close enough to the right answer, usually with some thought or calculation involved.
Regroup	Moving an amount (usually 10) from one part of a calculation to another so it is easier to do the calculation.

Home Learning

Can you calculate numbers you see when in the car?
Add/subtract number plates? Add numbers from family members phone numbers.?
Estimate shopping to the nearest 10p, £1. Calculate shopping bills.

Core Knowledge and Representations

Double Digit Addition WITH regrouping!

$$43 + 27 = 70$$

Double-Digit Subtraction with Regrouping

1. Always start with the ones.
2. If you can't subtract the ones, take a ten and move it to the ones column. 1 ten = 10 ones
3. Subtract the ones.
4. Subtract the tens.

Addition ← inverse → Subtraction

$$4 + 2 = 6$$
$$2 + 4 = 6$$

$$6 - 4 = 2$$
$$6 - 2 = 4$$

$$256 + 423 = 679$$

$$679 - 423 = 256$$