



**Lesson Overview**

**ADDING AND SUBTRACTING**

- Count to and across 100 and beyond in ones from any number
- Count back from 100 and beyond in ones from any number
- Add two one-digit numbers to 20, including zero
- Add a one-digit and two-digit numbers to 20, including zero
- Read and interpret statements involving the symbols '+' and '=' involving numbers up to 20
- Write statements involving the symbols '+' and '=' involving numbers up to 20
- Subtract one-digit number (a) from another one-digit number (b, a<b) within 20, including zero
- Subtract a one-digit number from a two-digit numbers within 20, including zero
- Read and interpret statements involving the symbols '-' and '=' involving numbers up to 20
- Write statements involving the symbols '-' and '=' involving numbers up to 20
- Solve one-step problems calculations involving numbers up to 20 using concrete objects and pictorial representations
- Solve missing number problems involving adding and subtracting numbers to 20
- Derive subtraction facts within 100
- Understand why subtraction is not commutative
- Subtract ones from a two-digit number using concrete objects, pictorial representations, and mentally
- Subtract tens from a two-digit number using concrete objects, pictorial representations, and mentally
- Subtract two two-digit number using concrete objects, pictorial representations, and mentally
- Solve problems involving addition or subtraction using concrete objects and pictorial representations
- Add three-digit numbers and ones or tens mentally
- Add three-digit numbers and hundreds mentally
- Subtract three-digit numbers and one or tens mentally
- Subtract three-digit numbers and hundreds mentally
- Use column addition for numbers with up to three digits when carrying is not required
- Use column addition for three-digit and two-digit numbers when carrying is required
- Use column addition for numbers with three-digits when carrying is required
- Use column subtraction for numbers with up to three digits when exchanging is not required
- Use column subtraction for three-digit and two-digit numbers when exchanging is required
- Identify when addition or subtraction is needed as part of solving a problem
- Column subtraction for up to 4 digits.

**TIMES TABLES**

- Recognise Multiples of 2,5 and 10
- Know the 2, 3, 4, 5 and 10 times table

**Suggested reading or support/ challenge available**

[www.mymaths.co.uk](http://www.mymaths.co.uk)  
login: penryn  
password: octagon

[www.hegartymaths.com](http://www.hegartymaths.com)  
Go to student login at the top... find your school, enter your details and then set up your password...

[vle.mathswatch.co.uk/vle/](http://vle.mathswatch.co.uk/vle/)  
username: school  
username@penryn-college  
password: Penryn2016

**Times table rockstars**  
Login: first 3 letters first name followed by first 3 letters second name  
Password: Penryn



**Key Words**

**Refer to**

<http://studymaths.co.uk/glossary.php> for definitions of the key words

- One more, one less
- Count on, count back
- One hundred
- Number bonds/ number facts
- Addition facts/ subtraction facts
- Add, subtract
- Count on, count back
- More, less
- Plus, minus, total, sum
- Difference between
- Equal, equal to
- Partition
- Inverse
- Number line
- Number facts
- Multiple of ten
- Calculation
- Calculate
- Addition
- Subtraction
- How many more, find # more
- Column addition
- Column subtraction
- Exchange
- Operation

**Notation**

The symbols '+', '-', and '='

**Cross curricular**

**NAC:**  
**Science** –Mental and written calculations.. Know the multiplication tables and associated division facts. Multiply and divide by 10.  
**Technology**- Know the multiplication tables and associated division facts. Mental and written calculations. Multiply and divide by 10 . Mental and written calculations.  
**RE** - Read and write numbers in figures and words.  
**PE** - Know the multiplication tables and associated division facts.  
**Geography** - Mental and written calculations. Know the multiplication tables and associated division facts.  
**History** - Mental addition and subtraction.

Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection

