



P6 Numeracy activities – Monday 18th – Friday 22nd May

Place value - Negative numbers (2 days)

Day 1

- Numbers below zero are called negative numbers. They have a 'minus' sign in front of them to show that they are negative numbers, for example -5 (say negative 5) or -8 (say negative 8).
- In real life, we use negative numbers in certain situations, for example
 - when thinking about temperature if the temperature falls below 0°C e.g. -2°C
 - when measuring the distance below sea level e.g. the submarine was sailing at a depth of -120m
- Download the "Negative numbers factsheet" and read through it together, talking about the different sections.
- Then log in to your Classroom Secrets account <https://kids.classroomsecrets.co.uk> Go to Year 5 and select "Maths" and then "Video Tutorial" from the dropdown menu. Find "Negative Numbers Video Tutorial", watch Jade as she shows you how to plot negative numbers on a numberline and try to complete the interactive challenges throughout the video.
- Now download the "Negative numbers numberline" worksheet and complete each section. The answers are available to download from the school website.

Day 2

- Begin by revising yesterday's work. Then log in to Education City and open the "Negative numbers" city in the Classwork section. Use the "Slippery Slope" and "Boiling Point" learning screens to learn more about using a thermometer to measure both positive temperatures (temperatures above 0°C) and negative temperatures (temperatures below 0°C). When reading a temperature which is below 0°C , we would usually say "minus" instead of "negative" e.g. -10°C (say minus 10 degrees centigrade).
- Download the "Temperature Moves worksheets". On page 1, you have been given a series of clues which will allow you to work out the temperatures recorded in different European cities. Use the thermometer on page 2 to record the temperature of each city. You won't always be able to use the clues in order so, once you've worked out one city's temperature, use that information to see if you can work out another one. The answers are available to download from the school website.

Handling Data – tally charts, range and mode (1 day)

- Today we are going to complete a tally chart and then find the range and the mode.

Yellow		4
Red		5
Blue		6
Green		1
Pink		4

- A tally chart is a **quick and easy way of recording data**. It involves filling in a chart with vertical dashes representing each time a piece of information is observed. We organise the tally marks into groups of five as seen in the example above.
- The range is the **difference between the biggest and the smallest number**. To find the range, subtract the lowest number from the biggest number. In the example above, the biggest number is 6 and the smallest number is 1 so $6 - 1 = 5$.
- The mode is the **value which appears most often**. If I was looking at this group of numbers
12, 20, 15, 19, 11, 15, 18, 20, 21, 15
the mode would be 15 because it appears most often in the series.
- Download the "Greenwatch play Handling Data" activity. Read through each section carefully, complete the tally charts and find the range and the mode. The answers are available to download from the school website.

Problem Solving – Finding All Possibilities (1 day)

- Download the “Team Colours Problem Solving” activity. Try to find all the possible combinations of colours which can be used for the football kits. There are 14 kits on the worksheet but you may not need them all! Try to take a systematic approach e.g. find all the possible answers where the top is red before moving on to the blue tops or green tops. The answers are available to download from the school website.

If you're not doing the AQE practice papers this week, why don't you do some mental maths activities for revision? Log in to Education City and try the activities in the “Mental Maths” city. You'll also find lots of excellent activities on www.interactive-resources.co.uk (username: brooklands password: brooklands)

Practice paper – Heinemann Paper 7 (1 day) plus Windmill Series 1 Test 3 (weekend paper)

If you haven't yet ordered the next set of practice papers (which will take you through to the end of May) but would like a set for your child, please email Mrs Bell as soon as possible abell356@c2kni.net with your child's full name and class and we will arrange a time for you to collect these tests.

This week, you have two tests to complete. Try to complete the Heinemann Paper 7 on your own as a test. Find a quiet place away from all distractions and do your best to get through as many of the pages as you can within 45 minutes. Do your working-out in the spaces at the sides of the page.

If you don't get it all finished, don't worry! You will find that you will get faster over the coming weeks as you get used to doing these tests. You can try the remaining questions later. If you get stuck on a particular question, have a guess, put a circle around the question number and move on. You can always go back to the questions which you have circled at the end of the test if you have any time left.

It is very important to use any extra time to go back and check your work. It is very unusual for anyone to get every question right so look for any mistakes

e.g. if the question says “Tick the correct boxes”, have you ticked more than one answer?

If your answer is in cm e.g. $25\text{cm} \times 5 = 125\text{cm}$, you might need to write your answer in metres so 1.25m

Once you have completed the test, download the answers and go through the test with an adult to mark your work. Take about an hour to go through the test together. The answers also show how you might set out your working-out. If there are any words which you don't understand, look them up in your dictionary.

Don't expect to get a wonderful score! These tests are supposed to be challenging and there will be some questions which you will find difficult. If there are particular questions which you are getting stuck on, it can be really useful to ask an adult to make up some extra questions - the more you practise, the better you'll get!

Good luck! And remember, at this stage, **scores don't matter**. We are simply getting used to doing these tests.

For those of you who are planning to enter the AQE tests, you now need to be doing two tests per week. Over the weekend, have a go at Windmill Series 1 Test 3. You might decide to work through it on your own and then mark it or you could sit with an adult and look through the questions together as you do your working-out. The answers can be downloaded from the school website.