P6 Numeracy activities – Monday 1st – Friday 5th June

Number – revision of tables, factors and prime numbers (1 day)

- Let's begin by finding out how well you know your multiplication tables! Download the "Speed Tables" worksheet and try to complete it as quickly as you can without any help! If you get stuck on a particular question, use your Maths Facts book or a tables chart but only where necessary. **Remember, it's really important to know your tables so, if there are certain tables that you can't remember, please practise these at home.**
- Today we are going to revise factors and prime numbers.
  Factors are numbers that divide exactly into another number
  e.g. the factors of 8 are 1, 2, 4 and 8 because 8 can be divided by 1, by 2, by 4 or by 8.
  Log in to your Classroom Secrets account https://kids.classroomsecrets.co.uk Go to Year 5 and select Maths and then Video Tutorials from the dropdown menu. Find "Factors Video Tutorial" and practise finding the factors of various numbers.
- **Prime numbers are special numbers that can only be divided by one and the number itself**
  e.g. 19 is a prime number because I can only divide it by 1 or by 19.
  Go back to Year 5 and select Maths and then Video Tutorials from the dropdown menu. Use "Prime Numbers Video Tutorial" to help you recognise different prime numbers.
- Now it's time to practise what you've learned. Log in to www.interactive-resources.co.uk (username: brooklands password: brooklands), find the Teaching Tables folder and then open the "Frontier Factors" game. Can you shoot the barrels which show the factors of each given number?

Measures - Volume (1 day)

- **Volume is the amount of space a 3D shape takes up. Volume is measured using cubic centimetres (cm^3).**
- Let's begin by revising last week's learning. Log in to Education City and open the "Volume" city in the Classwork section. (If you can't remember your login details, please email your teacher)
- Use the "Liquid Assets" learning screen to learn more about volume of both cuboids and of liquids. Use the "Tanks for all the fish" activity to practise what you've just learned.
- Download the "Tanks for all the fish" worksheet and try to find the volume of each cube or cuboid. Remember, you can work out the volume of a cube or cuboid by multiplying **height × width × depth.** The answers can be downloaded from the school website.
- Now download the "Blocked in activity" from the school website. These shapes are not cubes or cuboids so, to find the volume, we simply need to count the number of cubes which make up each layer.
  If the shape has more than one layer, then we need to multiply the number of cubes on one layer X the number of layers e.g. if the shape has 4 layers and there are 9 cubes on each layer, then the volume will be 4 X 9 = 36cm^3. The answers can be downloaded from the school website.

Measures – Using millimetres (1 day)

- Find a 15cm or 30cm ruler and examine the edge which shows centimetres closely. Each centimetre (cm) can be divided up into 10 smaller units called millimetres (mm). We use millimetres when we want to measure the exact length of an object.
- Go to our Brooklands PS P6 Home Learning YouTube channel and follow Mrs Bell as she leads you through today's activities https://www.youtube.com/watch?v=VrtdUFX_JPk
- You'll need to log in to www.interactive-resources.co.uk (username: brooklands password: brooklands), find the Teaching Length folder and then open the "What's My Length 15cm ruler" activity to complete Part 1 and then "Division Decisions 15cm ruler" for Part 2. All the instructions for each part are on the video.

- Finally, download the "Division Decisions" worksheet from the school website and work out the distance between the two arrows. Write your answers in both millimetres and centimetres.

Measures – Conversion of length (1 day)

- Today we are going to practise converting from one unit of length to another so we will be looking at millimetres (mm), centimetres (cm), metres (m) and kilometres (km).
- **It's important to know the relationships between the different units of length so remember**

10mm = 1cm	**e.g. 22mm = 2cm 2mm = 2.2cm**
100cm = 1m	**e.g. 451cm = 4m 51cm = 4.51m**
1000m = 1km	**e.g. 3925m = 3km 925m = 3.925km**

- Log in to Education City and open the "Conversion of Length" city. Use the Measure Island learning screen to revise the relationships between the different units of length and then try to answer the questions in both the Measure Island activity and the activity sheet. The answers to the activity sheet 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 additional measure activities for revision? Log in to Education City and try the activities in the "Measuring using centimetres and millimetres" city. You'll also find lots of excellent activities in the Teaching Length folder on www.interactive-resources.co.uk (username: brooklands password: brooklands)

Practice paper – Heinemann Paper 9 (1 day) **plus Windmill Series 2 Test 2 (weekend paper)**

The next set of practice papers for the month of June will be available to collect from the school foyer from 10.00am on Monday 1st June.

This week, you have two tests to complete. Try to complete the Heinemann Paper 9 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. 25cm X 5 = 125cm, 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 2 Test 2. 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.