



Family Homework

Every school holiday, families across the Stepney Partnership enjoy participating in 'Family Homework'.

Children, siblings and parents/carers learn together and have fun! This half-term's homework invites you to think about '**Mathematics.**' When you come back to school, you can share your learning with your teacher and your class.

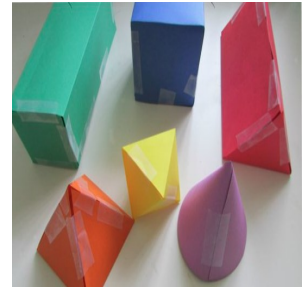
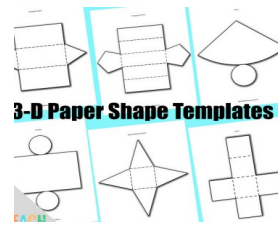
Create a mathematical pattern

Mathematical patterns have lines, curves, ratios, proportions and symmetry. Create your own pattern combining colour.



Write instructions

Write instructions on how to make 3d shapes using paper.

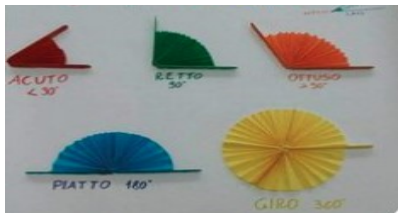


Make a polyhedral



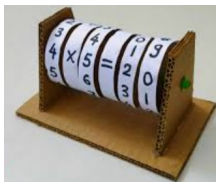
Create angles

Create your own angles using folded card between two sticks.

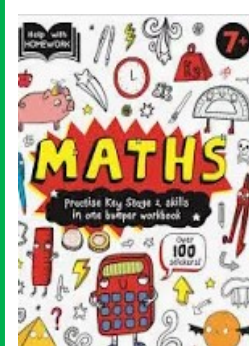


Design learning machines

What will your learning machine teach?



Make a maths poster



Make a poster of all the things that you relate to maths.

Numbers from around the world

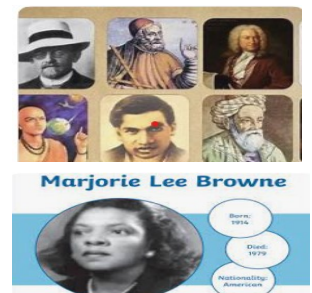
CHINESE NUMBERS				
yi 一 1	èr 二 2	sān 三 3	sì 四 4	wu 五 5
liù 六 6	qī 七 7	bā 八 8	jiǔ 九 9	shí 十 10

Arabic numbers.			
5	0	0	0
6	1	1	1
7	2	2	2
8	3	3	3
9	4	4	4

Write numbers from different parts of the world.

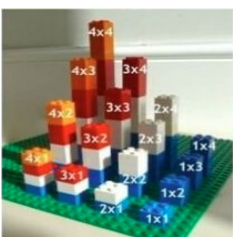
Fact file

Research and write a fact file on a famous historic mathematician. How did their work contribute to society?



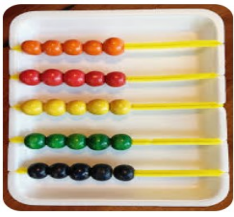
Design a maths city

Create a **maths city** using shapes, numbers and arrays. What shapes will your buildings be? What will be the area and perimeters of your buildings?



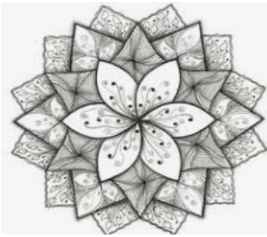
Mathematical items

Make items that can teach maths such as abacuses, clocks, number wheels or place value charts .



Sketch symmetry

Sketch a picture or pattern using symmetry.



Design a maths board game.

Snakes and ladders is a popular maths board game. Design your own. What mathematical skills or operations will they need to play? What are the rules?



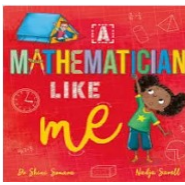
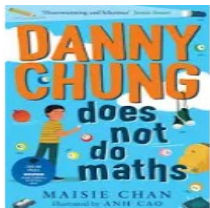
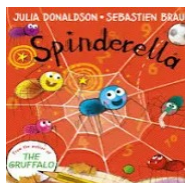
Maths Craft

Create items that can teach or represent maths for example adding and subtracting with a cookie monster.



Make a list

Make a list of books that involve maths.



Acrostic poem

Write an acrostic poem about maths.

Makes me use my brain.
 Arithmetic is fun.
 Takes time to learn.
 Hurray for Math!!

Write a story.

Write an adventure story about being lost in a mathematical world. The only way out is to solve the maths puzzles. Is there an unlucky number? What is the mathematical solution to escape?

Trips

You can visit the following places in relation to Mathematics.

- Greenwich observatory
- Big Ben
- The Winton Gallery in South Kensington
- Science Museum

Sacred numbers

Make a chart of the sacred or special numbers associated with different religions. What is their significance for that religion?



Name:

Class:

The 'Family Homework Challenge' should be completed by the first week back by **Wednesday 8th January.**

Bring your work to school to share what you have done with us.