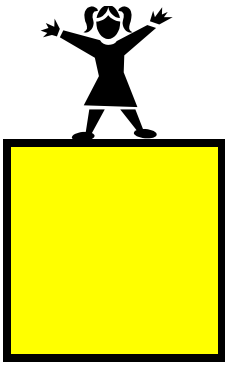
Below are some fun activities you may like your child to try over the summer holidays. In addition to these, look upon the school website for interactive ideas:

https://highworth.eschools.co.uk/web/fun_links_maths/295829

There are lots of fun mathematical website links under the 'Children' – 'Fun Links: Maths' link.

Your child may want to show their new teacher some of their home learning and they will be given verbal feedback, along with a certificate, or even a green card or two…!

2D Shapes



Shape Detective

Look around your home and count how many different 2D shapes you can find. List 10 different objects and their shape (eg, television – rectangle).

Shape Describer

Describe and draw 5 different shapes that you can see.

Right Angle Detective

Which shapes have **right angles**? Draw the object and show the right angle.

Symmetry Searcher

Which shapes have **lines of symmetry**? Draw the object and show the lines of symmetry.

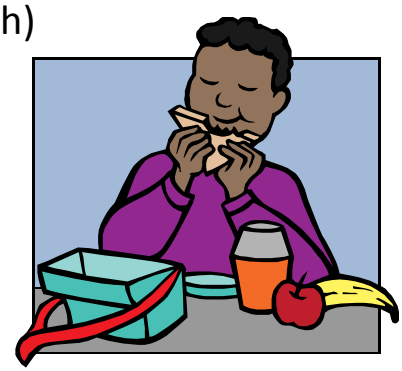
Room Planner

Design a plan for a square room using only 2D shapes. Use different shapes to represent the furniture in your room (e.g. circle for chair, rectangle for bed, etc). You can decide what furniture to have in your room. Label the items in your room.

Problem solving

• You have been asked to organise the packed lunches for a family day out. Everyone will get the following packed lunch:

1 ham sandwich (2 slices of bread for each sandwich)
1 packet of crisps
1 piece of fruit
1 yoghurt
1 carton drink



• How many of each item will you need altogether?

• How many slices of bread are there in a loaf? How many loaves will you need?

• If there is one slice of ham in the sandwich, how much ham will you need?

• How many slices of ham are in a pack? How many packs will you need?

• Look in your local shop, supermarket or on the internet and estimate the costs of each item needed for the packed lunch. How much will they cost altogether?

• Work out the exact costs for all the items needed. How does this compare with your estimated cost?

• Can you find any special offers on the items you need that will help you to save money?

Number Investigation

Number Detective

Look for numbers inside and outside your home. Make a note of where you see them. Why and how are they being used? Try to find 10 different examples. Present this information in a table, chart or diagram.

Booked!

Look at the pages of a book. Where are the odd numbers – on the left or right? Is it the same in every book? Investigate and report your findings.

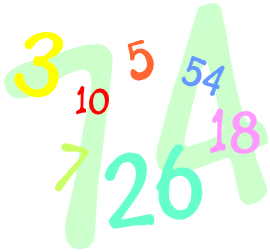
Object Combinations

Find 24 small objects in your home (buttons, coins, matchsticks, etc). How many different ways can you find to make equal groups of the objects? Write down the combinations.

Number Lists

Create a list of numbers that you use:

- The number of your house
- The number of a bus you use
- Your telephone number
- Your birthday
- The ages of your family members
- The telephone number of a friend



Favourite Number?

What is your favourite number? How many different ways can you make this number? Can you make your favourite number using different number operations, + x - ÷ (eg, number 3 = 1 + 1 + 1, 1 x 3, 4 - 1, 6 ÷2, etc)

Time Investigation

Use the television listings from a newspaper, magazine or the internet and create (cut & paste, cut out and stick in, draw a table, etc) a table showing all the programmes on BBC1 from 9.30am until 2.00pm.

-Work out how long each programme lasts (in minutes).
-Which programme is on television the longest? How long does it last?
-Which programme is on the shortest? How long does it last?
-How many programmes last longer than 45 minutes?

-If the first programme overruns by 15 minutes work out the new times that the all the programmes after it will start.

-Using your TV listings guide, find out at what time the main news is shown on BBC1 and Channel Four on a weekday. Present your information in a format that makes it easy to compare the different channels and start times.

-Look at the TV listings for Sky 1 for Monday and convert the start times of each programme into digital format. Create a table or diagram to show the times and programmes.

-What time is your favourite TV programme on? How long does it last? What channel is it on? What programme is showing on two different channels at the same time?

Money Investigation

Mum and dad have decided that they will give you extra pocket money for helping out at home! But the most that they will pay you is £5 per week.

Washing, drying and putting away the dishes £1.00
Vacuuming the lounge £0.75
Tidying and polishing the lounge £0.75
Tidying, cleaning and vacuuming your bedroom £2.00
Weeding the garden £1.50
Cleaning the car £2.50
Taking out the rubbish/bin £0.50

- *What is the least amount of jobs you will have to do to earn £5?*
- *What is the most amount of jobs you will have to do to earn £5?*
- *Which jobs would prefer to do and why?*
- *What other jobs could you do around the house?*
- *How much should you be paid for each one?*

Think of something that you would really like to buy and find out how much it costs.

- *Work out how much you would need to save each week and how long it would take you to save up for it.*

- *How much money would you have left after buying it?*

Think of the people in your family and your closest friends. Using catalogues, magazines or the internet look at presents that you would like to buy for them for their birthdays.

- *What present will you buy for each person?*
- *How much will it cost?*
- *How much money will you need altogether?*
- *How long will it take you to save up this amount?*
- *How many presents will you buy altogether?*
- *How much money will you have left over?*

Shape Investigation

1) I have 4 sides and 4 corners. My sides are not all the same length.

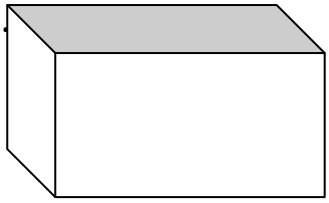
I am a …

<u>rectangle</u>

Can you make up your own clues for the following shapes:

Circle	Cube
Cuboid	Octagon
Triangle	Cone

2) This shape is a ……

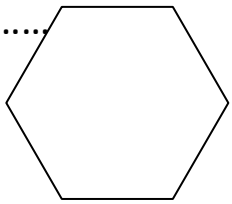


It has …… sides.

It has …… corners.

It has …… edges.

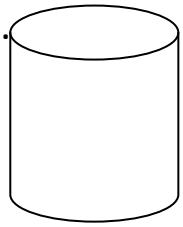
This shape is a ……



It has …… sides.

It has …… corners.

This shape is a ……



It has …… sides.

It has …… corners.

It has …… edges.

3) Roll a rectangle of paper (newspaper, magazine pages, etc) into a tube and use paper clips, staples or sticky tape to join the edges together. Try using different sized rectangles and see what the cylinders look like.

The rectangle makes one curved surface of a cylinder.
If it had a top and a bottom, how many surfaces would it have altogether?

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4) Find 5 everyday objects in your home that are like cylinders.

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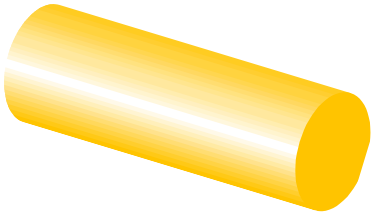

5) Find 5 different shaped objects in your home and draw them.